USSR

UDC 539.214;539.374

GORODETSKIY, V. N., BOGDANOV, V. N., BEKIN, N. G.

"On the Displacement of Material in a Longitudinally Asymmetric Rolling Process"

Sb. nauch. tr. Yaroslav. tekhnol. in-t (Collection of Scientific Works of Yaroslav1 Technological Institute), 1972, Vol. 31, pp 131-137 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 3V474)

Translation: The rate of longitudinal displacement of searched in length dinally asymmetric rolling of polymors to determined theoretically as applied to three range rolling with cylindrical nonparallel rolls, rolling with conical rolls, and bases directed toward the same side, and conical rollers with bases directed toward different sides. The material is characterized by the coefficient of Newtonian viscosity μ which is expressed in terms of the limiting value of the stress of the shift $\tau = A_{\rm eff}(B,\gamma)$, as $\gamma \to \infty$. The un-

known rate is determined by applying the formula for the average rate in the form of an integral which is a function of the coordinates of the input and output of the material from the deformation region. Formulas are also used reflecting the corresponding geometrical structures. 6 ref. M. I. Rozovskiy.

1/1

- 52 -

USSR

UDC 539.214;539.374

KUZNETSOV, N. V., BOGDANOV, V. N., BEKIN, N. G.

"Certain Problems in the Theory of Rolling of a Porous Material"

Sb. nauch. tr. Yaroslav. tekhnol. in-t (Collection of Scientific Works of Yaroslav1' Technological Institute), 1972, Vol. 31, pp 38-44 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 3V469)

Translation: The rolling of a porous powdery material is discussed theoretically. The rolling is assumed to be one-dimensional, the rate is taken to be constant with respect to the transverse cross section of the rolled material and normal stresses are also averaged over a transverse cross section assumed to be smooth. The movement of the powder mass under rolling is considered as the motion of a viscous incompressible liquid through a grid with a variable width of the gaps, thus imitating the compressibility of a porous material due to a decrease in cavities. The magnitudes of the contact tangential stresses are functions of displacements of powder particles over the surface of the roller and statistical characteristics of their rates are used to determine these. A technique is developed using probability laws for calculating the distribution of normal contact pressure over a capture arc in the rolling of the percus

1/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

KUZNETSOV, N. V., et al, Sb. nauch. tr. Yaroslav. tekhnol. in-t, 1972, Vol. 31, pp 38-44

mass. An example is given for calculating contact pressures in the rolling of asbestos-friction moded masses. A graph is constructed showing the distribution of normal pressure of the asbestos mass on the roller along the arc of contact. It is pointed out that the calculated value of the rolling forces are in good agreement with experimental data obtained by measuring the deformation forces using hydraulic dynamometers. 9 ref. Ye. M. Tretyakov.

2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

UDC: 539.3

BOGDANOV, V. N.

"Paradoxes of the Planar Theory of Filtration"

Sb. Nauch. Tr. Yaroslav. Tekhnol. In-t [Collected Scientific Works of Yaroslavl Institute of Technology], 1972, No 59, pp 19-22 (Translated from Referativnyy Zhurnal Mekhanika, No 12, 1972, Abstract No 12V44, by N. M. Borodachev)

Translation: The first main problem of the planar static theory of elasticity is studied. It is affirmed that the conditions used as the basis for the proof of the theorem of uniqueness of the solution of this problem are not observed if the area occupied by the elastic body is semi-infinite and the sector of application of external loads is infinitely long. Several cases of loading of an elastic half plane and an infinite wedge are presented and known formulas are developed for determination of stresses applicable to these cases. For example, two such cases are analyzed: 1) a weightless elastic half plane with a triangular normal load q=kx over a sector of length b (x axis directed along the boundary of the half plane); 2) a weightless half plane with a semi-infinite triangular normal load q=kx. If in plan 1 we assume $b\rightarrow\infty$, we arrive at plan 2. However, if in the formulas for voltages 1/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

Bogdanov, V. N., Sb. Nauch. Tr. Yaroslav. Tekhnol. In-t, 1972, No 59, pp 19-22.

corresponding to plan 1 we assume $b \rightarrow \infty$, we do not produce the formula corresponding to plan 2. Based on this, the author formulates the first paradox. Four more paradoxes are produced by analyzing other loading plans. The author of the article believes that the reason for these paradoxes is the insufficiency of the boundary conditions at infinity. Six biblio. refs.

2/2

- 129 -

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

On the bools of these considerations, we decided to investigate some of the indices of hospital care in one of those medium-lacd circum (the obtast center of Bryansk). In 1966, there were 23 hospitals with a tentel of 4,975 beds operating in Bryansk; 85,316 patients (not occurring mental cases) were treated in these institutions; 17,159 (20.1%) were rural residents. During that year, 1,141 beds were accupied by rural residents, and so a result, whilm the official availability of hospital buds for the urban population of Bryansk constituted 15,7 beds per 1,000 population, the actual availability constituted 11,7 beds.

V.N. BOGDANOV

21 3473

dipal hospitals play the loading part in hospital care; 65.9 percent of all patients requiring hospital medical care are hospitalized there. Hospitalization to differred in accordance with a decentralized system, since the meal number of hospitals makes it usually possible to attach the polyclinics directly to such hospitals.

Occupancy of hospital bed resources averaged 320.9 days for all of the city's haspitals, with a range of from 405 days at the municipal dermatoveneroological dispensary to 246 days in the infectious listeen hospital. The index of hospitalization is relatively low (14.75). Hend-

Social Hygrine & Health

INDICES OF URBAN HOSPITAL CARE

[Article by V.N. Berdanov, Chair of Social Hygiene and Public Newarth Organization (Neward by Professor S.Ya. Freydlin), First Lening and Madical Institute iment I.P. Pavlov; Noscoe, Sovetssove Zdrays (Notation No. 1, 1973, submitted 24 March 1972, pp 34-37)

A number of scientific studies have been published in recent years (I.D. Bogatyrev, V.A. Hinyayev, S.Ya. Freydlin, K.A. Shelemantevs, and others) dealing with organizing hospital care for the people. But all of them, as a rule, were conducted in very large citive (with ever 500,000 population) of which there are not too many in the USSA, only 33, according to the 1970 census. The conclusions of the authors of these studies are not admired active cities (NIG, 500 these studies are not always applicable to modium-sized cities (NIG, 500 these studies are not always applicable to modium-sized cities (NIG, 500 these studies are not always applicable to modium-sized cities (NIG, 500 these studies are not always applicable to modium-sized cities (NIG, 500 these studies are not always applicable to modium-sized cities (NIG, 500 these studies are not always applicable to modium-sized cities (NIG, 500 these studies are not seen and the second control of the second control of the second control of the second cities (NIG, 500 these second control of the second control of th

umo: 362.11[47+57]-27)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

to 500,000 population), whereas there are considerably more such cities in our country. According to the 1970 census there are 168 such cities including almost all of the country's oblast centers, with a tetal population of 38.3 million (33% of the population of all cities).

USSR



UDG: 601.791.03

BOCDANOV, V.N., and VILL', V.I., All-Union Defentific Research facilitate of Figure Westing Equipment

"Work of the All-Union Scientific-Research Institute of Electric Welding Equipment in Developing Welding Equipment"

Kiev, Avtomaticheskaya Svarka, No 5, May 70, pp 25-28

Abstract: A report is presented on the work of the All-Union Scientific-Research Institute of Electric Welding Equipment, organized 17 years ago in Leningrad, in creating equipment for arc and electric contact welding, developing the technology and equipment for plasma welding, cutting, and other methods for the treatment of metals, and investigation new types of welding and developing the required equipment. In the mechanization and automation of arc welding, the Institute has contributed to the improvement of the ADPG-500 and ADF-500 automatic machines and has developed new types of equipment (the ADA-300 and ADA-500 for compressed arc welding, ADPG-500 automatic machine for gas-shielded concumable electrode welding, the ADTG-600 for welding aluminum and its alloys by a three-phase arc, and the USD-305 universal type device for joining metals by plasma arc). The Institute developed the MTV-63 machine for spot welding of steel piles 12 X 3 mm thick and aluminum sheets 2 X 5 mm thick. For the plasma welding cutting, and surface treatment of various steels, cast iron, and nonferrous

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

BOGDANOV, V.N., et al., Avtomaticheskaya Svarka, No 5, May70, pp 25-28

metals (aluminum, copper), the APGS-1201, universal automatic machine was constructed. It operates on 380-volt AC current, has an intake of up to 300 kilowatts, is equipped with two torches using 1000 amperes (for welding) and 1500 amperes (for cutting), and is water-cooled. The automatic machine can cut sheet up to 200 mm thick at a rate of 5-70 m/hr, weld thick-walled billets and perform surface treatment of metals with a productivity of up to 3 kilogram force/minute at depths of the removable layer of up to 30 mm. A new process developed by the Institute is spin welding, which is used in various branches of industry. The Institute has also made contributions in copper and aluminum cold welding and produced the MSKhS-120 machine for this purpose. It has also created several machines for ultrasonic welding, among which the MTU-0.4 is cutstanding.

2/2

Coatings

USSR

UDC: 546.882'811:548.522

PETRUSEVICH, I. V., KOZLOV, F. N., BOGDANOV, V. P., NISEL'SON, L. A.

"Production of Nb₃Sn Coatings from the Gas Phase"

Moscow, Izvestiya Akademii Nauk SSSR, Neorganicheskiye Materialy, No 6, Jun 73, pp 952-955.

Abstract: Coatings of $\mathrm{Nb}_3\mathrm{S}_n$ were produced on a moving strip of nickel by reduction of NbCl_5 and SnCl_4 from the gas phase. The dependence of coating thickness and yield on strip movement rate through the experimental apparatus is presented in tabular form. In the apparatus used, varying strip movement rate from 5 to 25 cm/min caused the coating thickness to decrease from 10.8 to 0.6 μ . Joint reduction of the higher chlorides of Nb and Sn by hydrogen in continuous apparatus used was determined by coating thickness as a function of strip movement rate, hydrogen concentration and gas stream velocity. The composition and structure of the $\mathrm{Nb}_3\mathrm{Sn}$ coatings were found to be homogeneous along the

length of the tape. The temperature at which the coatings convert to the superconducting state is 17.7° K.

1/1

USSR

UDC 621.57.041-213.3-752:621.565.92

BOGDANOV, V. P., MOROZOV, S. A., KOLOSOV, S. V., SVYATNYY, V. I.

"Vibration Spectrum of Household Refrigerator Compressors as a Function of Their Defects"

Moscow, Kholodil'naya Tekhnika, No 6, 1971, pp 19-22

Abstract: A study is made of the relation between the vibration characteristics of the household refrigerator compressor DKh2-1010 and its defects and failures. The vibration spectra of the compressor for one revolution of the crankshaft are presented, and a mathematical analysis of them is performed. Both artificially induced and ordinarily occurring defects and failures are considered. Division of the signal in time does not permit determination of all types of defects in the compressor since more than one defect can occur in certain intervals. Further separation of the signal within the intervals by means of filters and application of devices realizing elementary logical functions to separate defects generating the same frequencies permit analysis of all types of defects by their vibration characteristics. The same type of diagnostic device can be extended to all types of compressors.

1/1

- 137 -

USSR

UDC: 8.71:

GRINCHENKO, N. K., BOGDANOV, V. S.

"Development of a Procedure for Access to Several Digits of a Variable in ODRA-ALGOL Language"

Tr. Ryazan. radiotekhn. in-ta (Works of Ryazan Radio Engineering Institute), 1972, vyp. 30, pp 189-192 (from RZh-Kibernetika, No 7, Jul 73, abstract No 7V625 by V. Mikheyev)

Translation: The use of digital computers on various stages of the design of complex electronic circuits has led to the development of a number of topological methods based on using the theory of graphs. The information on the graph is fed to the computer in the form of incidence matrices, contiguity matrices, or matrices which describe the distribution of values of functions given on the set of vertices or arcs of a graph. For complicated electronic circuits the number of matrix elements may reach several thousand. At the same time, it is not efficient to use an entire memory cell for storing one matrix element. In this connection the problem of data compression arises. This problem can be solved if the appropriate algorithms are recorded in the command system

1/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

GRINCHENKO, N. K., BOGDANOV, V. S., Tr. Ryazan. radiotekhn. in-ta, 1972, vyp. 30, pp 189-192

of a given computer, which involves certain difficulties due to the complexity of the algorithms to be realized. At the same time, ALGOL-60 language, which is convenient for realizing design algorithms, does not provide for access to several digits of a variable. The authors consider development of a procedure for access to several digits of a variable in ODRA-ALGOL, which is a specific representation of ALGOL-60 for the ODRA-1204 digital computer. The synthesis of procedures for access to several digits of a variable presupposes that a method has been developed for addressing groups of digits of a variable and that the relation has been established between the number recorded in the corresponding digits of the variable, and the value of the variable itself treated as a number.

2/2

- 46 -

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

010

UNCLASSIFIED

PROCESSING DATE--20NOV70

TITLE--PMR STUDY OF THE TAUTOMERISM OF MERCAPTUALDIMINES OF THE FURAN

SERIES -U-

AUTHUR-(03)-oUGDAND/, V.S., DANYUSHEVSKIY, YA.L., GOLDFARB, YA.L.

CEUNTRY OF INFO--USSR

SCURCE--12V. AKAD. MAUK SSSR, SER. KHIM. 1970, (3), 675-8

DATE FUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--HYDROGEN BONDING, STEREOCHEMISTRY, MOLECULAR STRUCTURE, DIMETHYL SULFOXIDE, HETEROCYCLIC OXYGEN COMPOUND, HETEROCYCLIC NITROGEN COMPOUND, MERCAPTAN, FURAN, URGANIC COMPLEX COMPOUND

CENTRGL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3000/1361

STEP NO--UR/0002/70/000/003/0675/0678

CIRC ACCESSION NU--APOL35035

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

010 UNCLASSIFIED CIRC ACCESSION MU--APO135035 PROCESSING DATE--20NOV70 ASSTRACT/EXTRACT--(U) GP-0-AUSTRACT. PMR SPECTRA WERE REPORTED FOR I(R EQUALS H, CYCLONEXYL, BETA MAPHTHYL, PH PHCH SUB21. I EXIST PREDEMINANTLY IN THE TAUTUMERIC FORM SHOWN ABOVE. THE INTERNAL H BOND IN THE CHELATE CYCLE IS LESS STRONG THAN IN THE TYTOPHENE ANALOGS AS A RESULT OF WHICH IT OFTEN BREAKS, IN PART UNDER INFLUENCE OF PULAR SULVENTS SUCH AS ME SUB2 SO, WHILE IN THE THIOPHENE AMALOG NO SUCH CHANGE TAKES PLACE. THE CHEM. SHIFT OF H PRIME! PROTON IN I DEPENDS ON IN SUBSTITUENTS AND ITS LARGEST VALUE IS FOUND WITH AROM. SUBSTITUENTS. AT ELEVATED TEMP. THE EQUIL. OF TAUTOMERS SHIFTS TOWARD FORMS WITH CONR GROUPING AND THOSE WITH SH HYDROGEN BENDED TO N. INST. GRG. KHIM. Id. ZELINSKOGO, MOSCOW, USSR.

2/2

PAGLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR UDC: 621.373.826:623

BOGDANOV, V. V., BRYKOV, V. G., MATROSOV, V. I., MOCHALOV, A. V., MYNBAYEV, D. K., SAYDOV, P. I., SHCHERBAKOV, Yu. A.

"Fundamental Problems in Developing a Laser Gyroscope"

Izv. Leningr. elektrotekhn. in-ta (News of Leningrad Electrical Engineering Institute), 1972, vyp. 101, pp 69-74 (from RZh-Radiotekhnika, Ko 12, Dec 72, abstract No 12D499 [résumé])

Translation: The principal physical relations which define the working characteristic of a gyroscope are examined. Technical requirements are formulated for the elements and parts of a laser gyroscope as implied by these physical relations. The results of an investigation of the zone of capture of the instrument are presented as well as one of the methods of reducing the threshold sensitivity — Zeeman effect. Bibliography of 3 titles.

1/1

- 78 -

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

BOGDANOVA, V. V., Leningrad

"Universal Equations of Laminar Boundary Layer of a Rotating Wing"

Moscow, Izvestiya Akademii Nauk SSSR, Mekhanika Zhidkosti i Gaza, No. 2, March-April, 1971, pp 84-93

Abstract: The motion of incompressible fluid in the boundary layer of a wing uniformly rotating about an axis normal to the span is analyzed.

The parametric method of solution is used. Three series of parameters controlling the boundary layer characteristics are used. A system of universal equations is established and integrated in a wide range of parameters.

The effects of rotation on separation and other characteristics of the boundary layer are derived.

Numerical examples show how velocity profiles in the boundary layer can be obtained from the subject system of equations.

1/1

- 8 -

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

6

UDC 532.574.2:531.787(088.8)

BOGDANOV, V. V.

"Aerometric Collector for Measuring Nonsteady-State Pressures in a Gas Flow"

USSR Author's Certificate No 241764, filed 8 Dec 67, published 2 Sep 69) (from RZh-Metrologiya i Izmeritel'naya Tekhnika, No 3, Mar 1970, Abstract No 3-32-718P)

Translation: The proposed collector is equipped with an external ture, concentric with respect to the collector, at one end of which a throttling bushing with radial through openings arranged along the periphery have been placed, and the circular gap of the collector part of the tube is plugged. This execution of the collector makes possible higher dynamic precision and reduces nonlinear distortions in taking measurements.

1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

AA0043304

BOGDANOV

V. V.

UR 0482

Soviet Inventions Illustrated, Section II Electrical, Derwent,

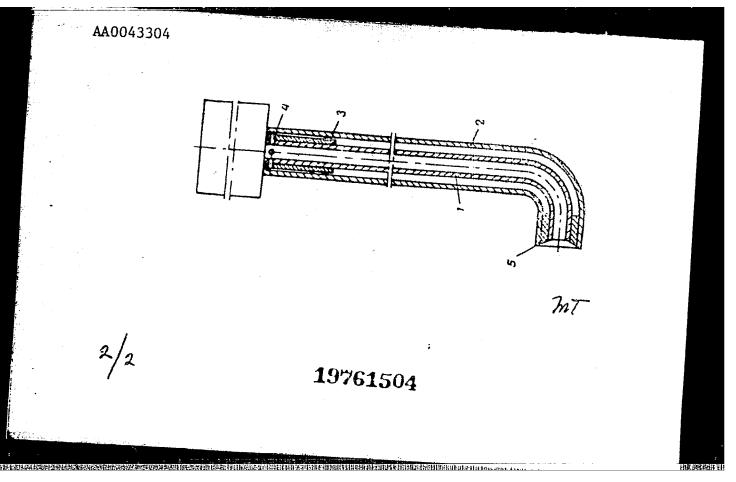
241764 AEROMETRIC RECEIVER for measuring nonstationary pressures in a gas flow, is in the
form of a receiving tube 1 and concentrically fitted
outside of it tube 2. At the end of the receiving
tube 1 is fitted a sleeve 3 with holes bored radially
to the walls 4. The ring clearance is covered by
sleeve 5. The changes of pressure taken up by the
receiver tube 1 are conveyed to a pressure recorder.
Simultaneously these variations of pressure pass
through the holes and clearance between the reducing
sleeve 3 and outside tube 2 in the volume formed by
the outside tube 2 and receiver 1. By manipulating
the clearance slit, a stage is reached when the
blind end of tube stops reacting to the pressure
changes.

8.12.67 as 1201909/26-10.V.V.BOGDANOV (2.9.69) Bul 14/18.4.69. Class 42k. Int.Cl.G 01 1.

1/2

21

19761503



USSR

BCGDANCY, V.V., MACANSKIY, R.A.

Jan Barre

UDG 621.516.722.1(C85.8)(47)

"Device For Conversion Cf A-C Voltage Into D-C"

USSR Author's Certificate No 248057, Filed 9 July 62, Published 5 can 70 (from REh-Elektronika i yeye primeneniye, No 8, August 1970, Abstract No 88.71F)

Translation: A regulated rectifier is described which contains a jower supply, a charging choice, a charging semiconductor dicde, a controllable element (togratron), an energy storage device (artifical long line), a pulse transformer, and a dignituding rectifier. In order to guarantee automatic stabilization of the categor voltage rectifier, a charging choice is provided with an additional winding watch is commented via the controlled resistances and a RO-circuit to the output of the device. The controlled resistance is made in the form of two electron tubes, the anotes of which are subconnected to the ends of the additional winding, the cathodes are connected among themselves, and the control grids are connected among themselves and connected to the RC-circuit. 1 ill. N.S.

1/1

- 60 -

1/2 017

UNCLASSIFIED

PROCESSING DATE--13NOV70

TITLE--A.C. TO O.C. CONVERTER -U-

AUTHOR-(02)-BOGDANOV, V.V., KAZANSKIY, R.A.

COUNTRY OF INFO--USSR

SOURCE--USSR 248057

REFERENCE--OTKRYTIYA, 1208REI., PRGM. OBRAZTSY, TOVARNYE ZNAKI, NR 23

DATE PUBLISHED--05JAN70

SUBJECT AREAS--ELECTRONICS AND ELECTRICAL ENGR., ENERGY CONVERSION (NON-PROPULSIVE)

TOPIC TAGS--PATENT, CODE CONVERTER, VOLTAGE STABILIZATION, THYRATRON

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--3004/0306

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0131G17

UNGLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

2/2 017 UNCLASSIFIED PROCESSING DATE--13NOV70 CIRC ACCESSION NO--AA0131017 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. MICROFICHE OF ABSTRACT CONTAINS GRAPHIC INFORMATION. A.C. TO D.C. CONVERTER INCLUDES AUTOMATIC STABILIZATION OF OUTPUT VOLTAGE. ENERGY STORAGE UNIT (5) FORMS A RESONANT CIRCUIT WITH CHOKE (2) AND IS CHARGED FROM POWER SUPPLY (1). AS THYRATRON (4) IS TRIGGERED, THE STORAGE UNIT IS DISCHARGED THROUGH (4) AND THE PRIMARY WINDING OF HIGH VOLTAGE PULSE TRANSFORMER (6). THE OUTPUT PULSES ARE RECTIFIED BY (7) INTO A HIGH DIRECT VOLTAGE. PART OF THIS VOLTAGE IS FED TO THE CONTROL GRID OF VALVES (10, 11) VIA VOLTAGE DIVIDER (12, 13) AND RC NETWORK (14). AN OUTPUT VOLTAGE DEVIATION FROM THE STABILIZED LEVEL CAUSES THE OPERATING CONDITIONS OF VALVES (10, 11) TO CHANGE BY WHICH THE RESCNANT CIRCUIT LOSSES ARE AFFECTED. AS A RESULT, THE ENERGY CONTENT OF THE STORAGE UNIT AND THE OUTPUT VOLTAGE LEVEL ARE INFLUENCED.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

UDC: 621.791:62-415.62-42

KOCHUKOV, N. S. (Candidate of Technical Sciences), SMIRNOV, I. V. (Technician), BONDANOV, YE. M., BAEONIN, I. V. and SEMERIKOV, N. V. (Engineers)

"Welding of Tee and Multi-Tee Sections From Sheet Metal"

Moscow, Svarochnoye proizvoástvo, No 12, Dec 71, pp 29-31

Abstract: Thin-walled tee shapes are finding ever-increasing application on account of lighter weight and greater rigidity. The recent trends and techniques of producing tee structures include automatic argon arc welding. Discussed here is the method of full-penetration welding to produce a convex (reinforced) weld (over 2 mm thick) successfully tested on various sheet materials (0.6-2 mm thick), including steels and alloys 1Kn18M9T, VZh-102, VNS-16, EI435, OT4-1, VT-5. The weld strength is rated on the basis of tensile and tear tests of the welded flange. In tensile tests the failures occurred along the transition zone; the tear-induced failures were in the parent metal indicating the significance of the reinforced weld.

1/2

Acc A P036432



Ref. Code: UR 0213

PRIMARY SOURCE: Okeanologiya, 1970, Vol 10, Nr 1, pp 86 - 98

Yu. A. BOGDANOV, O. G. KOZLOVA, V. V. MUKHINA

DISTRIBUTION AND COMPOSITION OF SUSPENDED MATTER IN THE NORTHERN AND CENTRAL INDIAN OCEAN

Summary

Some results are presented of the studies of suspended matter collected with the aid of separation and membrane filtration from the ocean surface and from different ocean depths. The distribution of suspended matter in the surface water is irregular. Its maximum amounts are confined to the near-shore areas, while in the central open parts of the ocean, to the areas of the rich development of planktonic organisms. Two types of the distribution of suspended matter in depth have been established depending on its material composition.

Different components of suspended material, siliceous, carbonate and terrigenous, are characterized and their distribution and role in the accumulation of sediments are determined.

D.M

Y

REEL/FRAME 19721276 12

1/2 030

UNCLASSIFIED

PROCESSING DATE--300CT70

TITLE--CYTOCHEMISTRY OF CHROMOSOME PAIRING IN MEIOSIS. 11.

CYTOSPECTROPHOTEMETRY OF HISTONE AND DNA IN SPERMATOCYTES I OF

AUTHOR-(02)-ANTROPOVA, YE.N., BOGDANOV, YU.F.

CCUNTRY OF INFO-USSR

SOURCE-TSITOLOGIYA 1970, 12(3), 289-96 (RUSS)

DATE PUBLISHED ---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS—CYTOLOGY. DNA, SPERMATOGENESIS, SPECTROPHOTOMETRY, BIOLOGIC STAIN, PROTEIN

CENTROL MARKING-NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED

PROXY REEL/FRAME--3002/0413 STEP NO--UR/9053/70/012/003/0289/0296

CIRC ACCESSION NO--AP0127984

UNCLASSIFIED

CIRC ACCESSION NU--AP0127984

UNCLASSIFIED

PROCESSING DATE--300CT70

ABSTRACT/EXTRACT—(U) GP—O— TESTES FROM CATERPILLARS WERE FIXED IN 10PERCENTRAL NEUTRAL FORMALIN FOR 12 HR. USING DOUBLE BEAM CYTCSPECTRUPHOTCMETRY THE AMTS. OF DNA (FEULGEN REACTION) AND HISTONE (STAINING WITH FAST GREEN AT PH 8.1—8.2) IN THE CELL NUCLEI WERE ESTD. AT THE EARLY STAGES OF SPERMATOGENESIS. THE AMT. OF DNA WAS MEASURED AT WAVELENGTHS OF 540 AND 514 MMU. THE AMT. OF HISTONES AT 598 AND 579 MMU. EVIDENCE WAS OBTAINED THAT THE DNA SYNTHESIS TERMINATES IN THE PREMEIOTIC INTERPHASE, WHILE HISTONE SYNTHESIS PROCEEDS UP TO THE PACHYNEMA. BEGINNING WITH PACHYNEMA THE RELATION HISTONE: DNA IS 1. THE PRESUMPTION THAT DEFICIENCY IN HISTONE DURING THE EARLY PROPHASE IN OF MEIOSIS IS A CONDITION FOR CHROMOSOME CONJUGATION WAS CONFIRMED. FACILITY: LAB. KARYOL., INST. MOL. BIOL., MOSCOW, USSR.

UNCLASSIFIED

USSR

UDC 678.027.5:678.674'524'42

FOMINA, L. L., GAVRILOVA, L. B., BOGDANOV, YU. N., and GOLOVACHEV, M. YE.

"Production of Multilayer Films Based on the Metal Plated Lavsan"

Moscow, Plasticheskiye Massy, No 11, 1972, pp 38-40

Abstract: Production and some characteristic properties of various multilayer films with low gas permeability have been reported. The starting material consisted of polyethylene terephtalate films plated with aluminum either on one side or on both. Low density nonstabilized polyethylene served as the adhesive. The preparation of multilayer films was carried out by the extrusion method. The gas permeability of the multilayer films depends on the gas permeability of the components. The doubly plated films showed lower air permeability than parent films, provided that the thickness of the multilayer films was at least 10 μ . These films find application in the production of wrapping material, casings, boxes, etc.

1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

Powder Metallurgy

USSR

WDC 621.762:669. 18.95

PALATHIK, L. S., KAGAN, YA. I., SHILOV, I. F., BELYAYEV, YU. I., BOGDANOVA, A. F., KOBYLEV, P. P., KOLESNIK, B. I., and KUDINOV, D. D., Khar'kov Polytechnic Institute imeni V. I. Lenin

"On the Micro- and Macroheterogeneity of the SAS-1 Alloy"

Kiev, Poroshkovaya Metallurgiya, No 4, Apr 73, pp 22-28

Abstract: A study was made of the physical and chemical heterogeneity of the SAS-1 aluminum sintered alloy. The luminescence method of flaw detection using metallography was employed in the investigation of the physical heterogeneity of the alloy. The nature, dimensions and statistical distribution of porcs appearing in the alloy in the process of its production and subsequent treatment were determined. The parameters of the luminisescence method were corrected for the purpose of obtaining maximum sensitivity during the investigation of alloy microporosity. It was shown that with selected optimal coconditions local pores with dmensions 10 x 15 x 25 // m can be reliably detected. The problems of the appearance of chemical heterogeneity of the alloy in micro- and macrovolumes were considered. Assumptions are advanced whose realization will result in a decreased number of macro- and micro-flaws in the SAS-1 alloy.

1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

UDC 612.66+612.833.81

OBRAZTSOVA, G. A., DOBROVOL'SKAYA, V. N., FEDOROV, V. K., FOCDANOVA, A. Ye., Institute of Physiology imeni I. P. Pavlov, Academy of Sciences USSR, Leningrad

"The Relation of Training and Long-Term Memory in the Ontogenesis of Rats"

Moscow, Doklady Akademii Nauk SSSR, Vol 204, No 3, 1972, pp 763-765

Abstract: The ontogenetic method of investigation permits discovery of the functional characteristics of the brain activity from the time of their development when the relations are simpler and more available for analysis than in mature animals. A study was made of the characteristics of the relation of the education rate and the retention of the defensive conditioned reflex of active escape in the postnatial antogenesis of a rat. The reproduction of the developed habit in the case of "complete" and "incomplete" training as a different mechanism [J. A. Deutsch, et al., Nature, No 213, 742, 1967] and with a known degree of training, changes in reflexes are almost never observed even after a prolonged interruption (6-8 months). Thus, the so-called "incomplete" training was used.

The development of a conditioned reflex of active escape takes place most rapidly in month-old baby rats. The dynamics of changes in the number of 1/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

OBRAZTSOVA, G. A., et al., Doklady Akademii Nauk SSSR, Vol 204, No 3, 1972, pp 763-765

conditioned reflexes of active escape from experiment to experiment and from combination to combination determined by the linear regression coefficient demonstrate that the least increment is observed in 12-month old rats. The period of optimal training in rats up to 1 year old does not coincide with the period of best retention of memory of the developed habit: when developing the escape reflex, the 1- and 2-1/2-month-old rats were the best, and when checking for retention they were the worst. The basis for poor memory in the defined ontogenesis period is the following: a) more pronounced nature of the induction relations at an early age, b) greater susceptibility of unreinforced associations to interfering effects, c) insufficient myelinization of the gray matter of the cerebral cortex.

2/2

- 64 -

USSR



UDO 015.212.015.2:015.214.27.015.4:014.122.5+017-089.5: 015.212+015.214.2-07:016.831-078.97

KUMIN, M. I., COIBCUA, M. A., YERIMOVA, M. V., and ROOD WELL, D. A., Chair of Faculty Surgery, First Moscow Medical School ideal i. M. Sechenov

"Effect of Phanuanyl and Dehydrobenzperidol on the Musan Central Nervous System"

Moscow, Khirurgham, No 1, 1970, pp 95-101

Abstract: Changes in the bioslectrical activity of the house brain vary with the depth of neuroleptic analgesia (XA). Light XA is characterized by the dominance and decreased frequency of the alpha rhythm; deep IIA, by the dominance of the slow delta and them tay-time. The absence of desynchronization in the ERS and the outrasous galvanic reaction to light and pain auggest that the system of affectant objection is effectively blocked during XA. The isolated use of delydrobidyperidol produced only minor changes in the ING and total electrical activity. Phentanyl caused a smift toward the low-inequency range, with the delta-and bhata-waves perdominanting, and appeared or have increase in the bouriest activity.

- 70 -

11333

whalk, M. I., et al., Mescow, Khirurgiya, So 1, 1870, pp 96-101

Reorganisation of the NUS waves in response to any shale lives teleulation ceased ancer the influence of dehydrobenyperisol alone or combined with phentrapyl. Phentanyl promoted assimilation of high frequencies of highe Plasses and blocked the effect of dehydrobenaperisol previously administered. This indicates that phentanyl has a central activating influence.

2/2

Acc. Nr: APO044853_

B Ref. Code: UR 053/

PRIMARY SOURCE: Khirurgiya, 1970, Nr / , pp 95-10/

ON THE EFFECT OF PHENTANYL
AND DEHYDROBENZPERIDOL ON THE HUMAN
CENTRAL NERVOUS SYSTEM

Kuzin, M. I.; Osipova, N. A.; Yefimova, N. V.; Bogdanova, E. A.

The results of analysis of the spontaneous bioelectric activity, frequency composition of the electroencephalogram, electroencephalographic and dermogalvanic reactions to pain and rhythmic light stimuli testify to inhibition in the system of afferent conduction with extinguishing of cortical and dermogalvanic reactions to external stimuli in this type of anesthesia.

12

DI

1//

REEL/FRAME 19771708

USSR

UDC 621,382,3:621,375,4

SAMOYLENKO, V. I., BOGDANOVA, G. A.

"Nonlinear Properties of the Input Circuit of a Transistor with Automatic Bias"

Tr. Mosk. aviats. in-ta (Works of Moscow Aviation Institute), 1970, vyp. 215, pp 150-160 (from RZh-Radiotekhnika, No 4, Apr 71, Abstract No 4D100)

Translation: The rectifying properties of the emitter-base gap of a transistor in a circuit with a common emitter are investigated. The current amplitude of the basic harmonic and the variation of the constant component of the current are determined. The input impedance of the input section of the transistor with automatic bias is found as a function of the input signal amplitude, the gain coefficient with respect to the transistor current, the magnitude of the resistance in the emitter circuit and other parameters. It is demonstrated that the variation of the input impedance of the transistor input circuit from the magnitude of the amplitude can be used to limit the oscillations in autooscillators operating in the undervoltage mode. The bibliography has 5 entries.

1/1

- 8 -

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

UDC: 621.373.52:621.373.42

BOGDANOVA, G. A.

"Analysis of the Operation of a Transistorized Self-Excited Oscillator With a Monlinear Master Tank Circuit"

V sb. Poluprovodn. pribory v tekhn. elektrosvyazi (Semiconductor Devices in Technical Electrical Communications—collection of works), Moscow, "Svyaz'", 1970, pp 93-105 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1D333)

Translation: The author studies the stationary and continuous mode of operation of a low-frequency self-excited oscillator with nonlinear master tank circuit and automatic bias. Eight illustrations, bibliography of three titles. Resumé.

1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

USSR

UDC 621.771.23.001.5

TITLYANOV, A. Ye., POLUKHIN, V. P., EOGDANOVA, G. P., and SAVINKINA, A. I.

"The Effect of Speed on Change in the Technological Parameters of the Dressing Process"

Moscow, Plasticheskaya Deformatsiya Metallov i Splavov, "Metallurgiya" Publishing House, No. 64, 1970, pp 91-97

Translation: Investigation on the four-high 1700 mill showed that, with 08kp steel 0.5-2.0 mm thick, increasing the speed of dressing leads to an increase in reduction and metal pressure on the rolls. It is shown that increasing these quantities does not depend on preliminary adjustment and is established by the mechanical properties, thickness of the sheet, rigidity of the stand, and design of the liquid friction bearings. The results make it possible to determine the amount of preliminary adjustment established at low speeds, which corresponds to the optimal reduction state at working speed. Six illustrations, 13 bibliographic entries.

1/1

USSR

UDC 621.771.23.001.5

TITLYANOV, A. Ye., POLUKHIN, V. P., BOGDANOVA, G. P., and SAVINKINA, A. I.

"Optimizing Reduction States of the Dressing Process Considering the Effect of Straightening on the Mechanical Properties of a Thin Sheet"

Moscow, Plasticheskaya Deformatsiya Metallov i Splavov, "Metallurgiya" Publishing House, No. 64, 1970, pp 97-103

Translation: It is shown that, at low reductions in the process of dressing O8kp steel, subsequent straightening lowers the value of a majority of mechanical properties and the depth of the hole when testing according to Eriksen. Taking into account the effect of straightening on mechanical properties of the dressed metal makes it possible to select the optimal dressing mode more correctly. Reduction during dressing in the range of 0.5-0.7 percent with subsequent straightening makes it possible to eliminate the area of yield on the tension diagram and to obtain metal with a minimum yield point, lowered hardness, and a very deep Eriksen hole, which increases the stampability of sheet metal. Six illustrations and seven bibliographic entries.

1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

。 第一章 1985年 - 19

1/2 017 UNCLASSIFIED PROCESSING DATE-300CT70
TITLE-COLORING MECHANISM OF CERIUM CONTAINING GLASSES -U-

AUTHOR-(03)-BOGDANOVA, G.S., DZHURINSKIY, B.F., ANTONOVA, S.L.

COUNTRY OF INFO-USSR

SOURCE-IZV. AKAD. NAUK SSSR, NEORG. MATER. 1970, 6(4), 776-80

DATE PUBLISHED ---- 70

SUBJECT AREAS-MATERIALS

TOPIC TAGS--CERIUM GLASS, OPTIC PROPERTY, CERIUM COMPOUND, COMPLEX COMPGUND, SPECTRUM

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—2000/2031

STEP NO--UR/0363/70/006/004/0776/0780

CIRC ACCESSION NO--AP0125619

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

PROCESSING DATE--300CT70 UNCLASSIFIED 2/2 CIRC ACCESSION NG--AP0125619 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE MECHANISM BY WHICH CE IMPARTS COLOR TO GLASSES WAS STUDIED AS WAS THE POSSIBILITY OF USING THIS PIGNENT TO PRODUCE YELLOW ORANGE LIGHT FILTERS HAVING PREDID. AND REPRODUCIBLE SPECTRAL PROPERTIES. THE EFFECT OF FOUNDING TIME ON SPECTRAL PROPERTIES OF THESE GLASSES AND ON THE CONCN. OF THE QUADRIVALENT CE ICN WAS INVESTIGATED. COMPLEX GROUPS CE PRIMEIV O CE PRIMEIII FORM IN CE CONTG. GLASSES. THE SPECTRAL ABSORPTION OF CE CONTG. GLASSES, AS DEPENDENT ON THE CONCN. OF THE CE CE COMPLEX FOLLOWS BEER'S LAW. THE SPECTRAL CURVE OF THE MOLAR ABSORPTIVITY FOR THE CE CE COMPLEX, WITH ITS MAX. PROBABLY LOCATED IN THE UV SPECTRAL REGION, FACILITY: GOS. NAUCH.-ISSLED. INST. FOLLOWS A SLOPING PATH. STEKLA, MOSCOW, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

tia an

100 621, 317, 422, 661, 5

KHOTOMLYANSKIY, A. L., NALCHA, G. I., and BOGDANOVA, I. I.

"Study of Irregularities of Mechanical Properties and Liquation of Chemical Elements in Low-Carbon Sheet Steel"

Dnepropetrovsk, Metallurgicheskaya i Gornorudnaya Promyshlennost', No 4, Jul-Aug 70, pp 34-36

Abstract: Results are presented from studies performed on transverse templets taken from hot-rolled strips of O8KP steel. The studies indicated significant heterogeneity of mechanical properties and liquation of chemical elements across the width of the strip, with good reliability of the calculated correlation coefficients. Analysis of the correlation coefficients between strength and content of each of the chemical elements C, Mn, S, P, and Al indicates significant positive dependence between strength and content of carbon, manganese, and aluminum. The dependence between the strength and the content of sulfur and phosphorus was found to be statistically unreliable. The dependence of yield point and relative elongation on the content of the chemical elements was found to be unreliable. A method is presented for calculating contact elastic flattening of rolls in one particular case of distribution of specific pressure over the width of a strip.

1/2 017 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--EFFECT OF GAS TEMPERATURE ON THE EFFECTIVENESS OF EXCITATION

TRANSFER IN HELIUM -U-

AUTHOR-(02)-BOGDANDVA- I.P., MARUSIN, V.D.

COUNTRY OF INFO--USSR

SOURCE--OPT. SPEKTROSK. 1970, 28(4), 645-9

DATE PUBLISHED ---- 70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--HELIUM, EXCITATION ENERGY, THERMAL EFFECT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1740

STEP NO--UR/0051/70/028/004/0645/0649

CIRC ACCESSION NO--APO118718

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

UNCLASSIFIED

017

2/2

PROCESSING DATE--230CT70

CIRC ACCESSION NO--APOII8718 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. HEAT A PRESSURE OF 8 TIMES IOPRIME NEGATIVES-4 TIMES 10 PRIME NEGATIVES TORR HAS EXCITED BY THE IMPULSE ELECTRONIC BEAM. VARIATION WAS OBSD. OF FORM OF THE OPTICAL FUNCTIONS OF EXCITATION OF THE SPECTRAL LINES OF HE FROM THE LEVELS 3 PRIMES D (LAMBDA EQUALS 587.6 NM) AND 4 PRIMES D (LAMBDA EQUALS 447.1 NM) MEASURED IN THE REAR AND FRONT OF A RECTANGULAR IMPULSE OF ELECTRONIC CURRENT OF 1 MUSEC DURATION. THIS VARIATION OF THE FORM IS DETD. BY THE TRANSFER OF THE EXCITATION FROM OTHER LEVELS OF HE ONTO THE STUDIED LEVELS. THE MEASUREMENTS SHOW DURATION OF THIS ADDNL. EXCITATION OF THE LEVELS 3 PRIMES D AND 4 PRIMES D LARGER BY AN ORDER OF MAGNITUDE THAN THEIR RADIATION LIFETIME. INVESTIGATION WAS CARRIED OUT OF THE TEMP. EFECT OF THE GAS ON THE MAGNITUDE OF THE EFFECTIVENESS OF TRANSFER OF THE EXCITATION IN THE TEMP. INTERVAL 120-580DEGREESK. AS THE TEMP. OF THE GAS VARIES 300-580DEGREESK THE MAGNITUDE OF THE EFFECTIVENESS OF THE TRANSFER WITHIN EXPIL. ERRORS REMAINS UNCHANGED AND AT THE TEMP. OF 120DEGREESK INCREASES 1.4 FOLD.

UNGLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

[4] SESTEMATER NATA SERVICE HAR REPORTED FOR A CONTROLL OF A CONTROL OF A CONTRO

1/2 GC9 UNCLASSIFIED PROCESSING DATE--20NGY70
TITLE--COMPLEXES GF GERMANIUM, IV, WITH MANDELIC ACID -U-

AUTHOR-(04)-SHAGISULTANOVA, G.A., KURNEVICH, G.I., VISHNEVSKIY, V.B.,

COUNTRY OF INFC-USSR

SOURCE--ZH. NECRG. KHIM. 1970, 15(3), 648-51

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS—GERMANIUM COMPOUND, COMPLEX COMPOUND, CESIUM COMPOUND, COBALT COMPLEX, PLATINUM COMPLEX, GLYCOLLIC ACID

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1705

STEP NO--UR/0078/70/015/003/0648/0651

CIRC ACCESSION NO--APO125326

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

UNCLASSIFIED PROCESSING DATE—20N0V70 CIRC ACCESSICN NO—APO125326

ABSTRACT/EXTRACT—(U) GP-U— ABSTRACT. M(GE(BZCO SUB2)SUB2.PHCH(DH)CO SUB2.H SUB2 D), WHERE M EQUALS K PRIME POSITIVE, NH SUB4 PRIME POSITIVE, CS PRIME POSITIVE, (CO(EN)SUB2CL SUB2)PRIME POSITIVE, (PT(NH SUB3)SUB4)PRIME2 POSITIVE, OR (CO (NH SUB3)SUB6)PRIME3 POSITIVE SEPD. AS SOLIOS DUKING REACTION OF GE(IV) WITH MANDELIC ISOMOLAR SERIES SHOWED FORMATION OF COMPLEXES OF DIFFERENT COMPN. STRUCTURES ARE PROPOSED FOR THE CCMPLEXES OF GE(IV) WITH I.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

Acc. Nr: AP0051926 Ref. Code:

אנייטיון וויי

Ref. Code: UR 0219

PRIMARY SOURCE:

Byulleten' Eksperimental'noy Biologii i

Meditsiny, 1970, Vol 69, Nr 2 , pp 35-38

EFFECT OF ADRENALECTOMY AND NARCOSIS ON THE ANAPHYLACTIC REACTION

M. A. Bogdanova, L. P. Kopytovskaya

Institute of Experimental Medicine, Academy of Medical Sciences of the USSR, Leningrad

Removal of both adrenal glands in mice enhanced the sensitivity of the animals to the systemic anaphylactic reaction: minimal lethal doses of the immune serum was 80 times as low as in the control. Removal of but one adrenal gland produced no effect. Administration of cortizone restored the sensitivity of adrenalectomized animals to the normal level. In the adrenalectomized animals local reactions were less pronounced than in the control. Cortizone decreased the frequency of positive reactions. Deep ether narcosis during administration of "antimice" serum did not affect the development of general and local reactions of this type.

1/1

REEL/FRAME 19820409 Be à

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

1 Auguste richten Straff (diffe) Ungehört und straff der Gelegen d

USSR

UDC 576.851.31.097.22:615.33

PODOSINNIKOVA, L. S., DOMARADSKIY, I. V., LIBINZON, A. YE., LEBEDEVA, S. A., and BOGDANOVA, M. I., Rostov-on-Don Antiplague Institute

"Multiple Resistance of El Tor Cholera Vibrios to Antibiotics"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, 1973, pp 9-13

Abstract: Fresh isolates of El Tor vibrios from patients with cholera were tested for resistance to a number of antibiotics, and several strains were found to show multiple resistance. Resistance was found to decrease on in vitro passage and, since it is known that the El Tor vibrios readily take up resistance transfer factors from intestinal bacteria, studies were undertaken to pass the putative resistance factor from the vibrios to Pasteurella pestis strains EV and 556/106, and to cure the vibrios with acriflavine. Exposure of the vibrios to 0.1-5 μ g/ml of acriflavine in Parten's broth for 18-20 hrs at 37^{6} C resulted in loss or decrease of resistance. Exconjugate P. pestis cells were found to acquire resistance to tetracycline, levomycetin, and streptomycin from the resistant vibrios; the resistance factor was transferred with a frequency of 2 x 10^{-4} to 2 x 10^{-5} . In summary, the results showed that one strain of El Tor vibrios was cured by acriflavine and transferred resistance to 1/2

- 21 -

USSR

PODOSINNIKOVA, L. S., et al., Zhurnal Mikrobiologii, Epidemiologii i Immuno-biologii, No 4, 1973, pp 9-13

P. pestis, four other strains transferred resistance to P. pestis but exposure to acriflavine only decreased their antibiotic resistance, and one strain, which was resistant to tetracycline, oxytetracycline, penicillin, and ampicillin, did not transfer resistance to P. pestis but was cured of resistance to tetracycline and oxytetracycline by acriflavine. The data suggest the extrachromosomal nature of the resistance factor. The failure of one strain to transfer the plasmid to P. pestis may have been due to the latter's inability to accept the plasmid, or the factor could have been defective or integrated into the chromosome.

2/2

USSR

UDO 615,281.8:547,720.2

GRINEY, A. N., ZOTOVA, S. A., MCCDANOVA, N. S., NIKODANEVA, I. S. and concern of N. All Union Scientific Research Chemical-Phermaceutical Insti-

"The Synthesis and Investigation of the Antiviral Properties of Diberzofuran Derivatives"

Moscow, Khimiko-Farmatsevticheskiy Zhurnal, Vol 7, No 12, Dec 73, pp 19-21

Abstract: Seventeen dibenzofuran derivatives were synthesized from 2-oxy-6,7,8,9-tetrahydrodibenzofuran or 2-oxy-dibenzofuran, by bromination, substitution of nitro groups for bromine, aminomethylation and formation of alkylamine ester hydrochlorides. Five of the hydrochlorides were found to have virocidal activity, with one ten times more effective than the others. No therapeutic effect was established.

1/1

_ 138 -

USSR

Powder Ketallurgy

UDC 621.762,669. 18.95

PALATNIK, L. S., KAGAN, YA. I., SHILOV, I. F., BELYAYEV, YU. I., BOGDAHOVA, A. F., KOBYLEV, P. P., KOLESHIK, B. I., and KUDIKOV, D. D., Khar kov Poly-

"On the Micro- and Macroheterogeneity of the SAS-1 Alloy"

Kiev, Poroshkovaya Metallurgiya, No 4, Apr 73, pp 22-28

Abstract: A study was made of the physical and chemical heterogeneity of the SAS-1 aluminum sintered alloy. The luminescence method of flaw detection using netallography was employed in the investigation of the physical heterogeneity of the alloy. The nature, dimensions and statistical distribution of porcs appearing in the alloy in the process of its production and subsequent treatment were determined. The parameters of the luminisescence method were corrected for the purpose of obtaining maximum sensitivity during the investigation of alloy microporosity. It was shown that with selected optimal coconditions local pores with dmensions 10 x 15 x 25 Mm can be reliably detected. The problems of the appearance of chemical heterogeneity of the alloy in micro- and macrovolumes were considered. Assumptions are advanced whose realization will result in a decreased number of macro-

1/1

UDC 612.66+612.833.81

OBRAZTSOVA, G. A., DOBROVOL'SKAYA, V. N., FEDOROV, V. K., FOCDANOVA, A. A. T. T. T. Pavlov, Academy of Sciences USSR,

"The Relation of Training and Long-Term Memory in the Ontogenesis of Rats" Leningrad

Moscow, Doklady Akademii Nauk SSSR, Vol 204, No 3, 1972, pp 763-765

Abstract: The ontogenetic method of investigation permits discovery of the functional characteristics of the brain activity from the time of their development when the relations are simpler and more available for analysis than in mature animals. A study was made of the characteristics of the relation of the education rate and the retention of the defensive conditioned reflex of active escape in the postnatial antogenesis of a rat. The reproduction of or active escape in the postnatial antogenesis of a fact. The reproduction of the developed habit in the case of "complete" and "incomplete" training as a different mechanism [J. A. Deutsch, et al., Nature, No 213, 742, 1967] and with a known degree of training, changes in reflexes are almost never observed even after a prolonged interruption (6-8 months). Thus, the so-called "incomplete" training was used.

The development of a conditioned reflex of active escape takes place most rapidly in month-old baby rats. The dynamics of changes in the number of 1/2

CIA-RDP86-00513R002200420004-7" APPROVED FOR RELEASE: 09/01/2001

ORRAZTSOVA, G. A., et al., Doklady Akademii Nauk SSSR, Vol 204, No 3, 1972, conditioned reflexes of active escape from experiment to experiment and from USSR conditioned releases of active escape from experiment to experiment and from combination determined by the linear regression coefficient combination to combination determined by the linear regression coefficient of demonstrate that the least increment is observed in 12-month old rats. The pp 763-765 period of optimal training in rats up to 1 year old does not coincide with the period of best retention of memory of the developed habit: when developing the period of dest retenction of memory of the developed habit; when developing the escape reflex, the 1- and 2-1/2-month-old rats were the best, and when checking for retention they were the worst. The basis for poor memory in the defined escape reriex, the 1- and 2-1/2-month-old rats were the best, and when checking for retention they were the worst. The basis for poor memory in the defined ontogenesis period is the following: a) more pronounced nature of the induconcogenesis period is the rottowing. a) more pronounced nature of the tion relations at an early age, b) greater susceptibility of unreinforced tion relations at an early age, b) from the following to interfering officers. tion relations at an early age, b) greater susceptionity of uncertainted associations to interfering effects, c) insufficient myelinization of the gray matter of the cerebral cortex. - 64 -2/2

USSR



UDC 615.212.015.2:615.214.27.015.4:612.822.3+617-089.5: 615.212+615.214.2-07:616.831-078.97

KUZIN, M. I., OGIPOVA, N. A., YEFIMOVA, N. V., and BOGDANOVA, T. A., Chair of Faculty Surgery, First Moscow Medical School ident I. M.

"Effect of Phentanyl and Dehydrobenzperidol on the Haman Gentral Nervous System"

Moscow, Khirurgiya, No 1, 1970, pp 95-101

Abstract: Changes in the bioelectrical activity of the human brain vary with the depth of neuroleptic analgesia (NA). Light NA is characterized by the dominance and decreased frequency of the alpha thms. The absence of desynchronization in the EEG and the cutaneous galvanic reaction to light and pain suggest that the system of use of dehydrobusperidol produced only minor changes in the EEG and total electrical activity. Phentanyl caused a shift toward the low-frequency range, with the delta-and thata-waves perdominating, and threefold or more increase in the total electrical activity.

- 70 -

HISSR.

MUZIN, M. I., et al., Moscow, Khirprgiya, No 1, 1970, pp 95-101

Reorganization of the TIS waves in response to a whimic light stimulation ceased under the influence of dehydrobensperidol alone or combined with phentanyl. Phentanyl promoted assimilation of high frequencies of light flashes and blocked the effect of dehydrobensperidol previously administered. This indicates that phentanyl has a central activating influence.

2/2

Acc. Nr: APO044853

Ref. Code: UR 053/

PRIMARY SOURCE: Khirurgiya, 1970, Nr / , pp 75-10/

ON THE EFFECT OF PHENTANYL
AND DEHYDROBENZPERIDOL ON THE HUMAN
CENTRAL NERVOUS SYSTEM

Kuzin, M. I.; Osipova, N. A.; Yefimova, N. V.; Bogdanova, E. A.

The results of analysis of the spontaneous bioelectric activity, frequency composition of the electroencephalogram, electroencephalographic and dermogalvanic reactions to pain and rhythmic light stimuli testify to inhibition in the system of afferent conduction with extinguishing of cortical and dermogalvanic reactions to external stimuli in this type of anesthesia.

12

DI

///

REEL/FRAME 19771708

USSR

UDC 621.382.3:621.375.4

SAMOYLENKO, V. I., BOGDANOVA, G. A.

"Nonlinear Properties of the Input Circuit of a Transistor with Automatic Bias"

Tr. Mosk. aviats. in-ta (Works of Moscow Aviation Institute), 1970, vyp. 215, pp 150-160 (from RZh-Radiotekhnika, No 4, Apr 71, Abstract No 4D100)

Translation: The rectifying properties of the emitter-base gap of a transistor in a circuit with a common emitter are investigated. The current amplitude of the basic harmonic and the variation of the constant component of the current are determined. The input impedance of the input section of the transistor with automatic bias is found as a function of the input signal amplitude, the gain coefficient with respect to the transistor current, the magnitude of the resistance in the emitter circuit and other parameters. It is demonstrated that the variation of the input impedance of the transistor input circuit from the magnitude of the amplitude can be used to limit the oscillations in autooscillators operating in the undervoltage mode. The bibliography has 5 entries.

1/1

- 8 -

USSR

UDC: 621.373.52:621.373.42

BOGDANOVA, G. A.

"Analysis of the Operation of a Transistorized Self-Excited Oscillator With a Nonlinear Master Tank Circuit"

V sb. Poluprovodn. pribory v tekhn. elektrosvyazi (Semiconductor Devices in Technical Electrical Communications--collection of works), Moscow, "Svyaz'", 1970, pp 93-105 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1D333)

Translation: The author studies the stationary and continuous mode of operation of a low-frequency self-excited oscillator with nonlinear master tank circuit and automatic bias. Eight illustrations, bibliography of three titles. Resumé.

1/1

USSR

UDC 621.771.23.001.5

TITLYANOV, A. Ye., POLUKHIN, V. P., BOGDANOVA, G. P., and SAVINKINA, A. I.

"The Effect of Speed on Change in the Technological Parameters of the Dressing Process"

Moscow, Plasticheskaya Deformatsiya Metallov i Splavov, "Metallurgiya" Publishing House, No. 64, 1970, pp 91-97

Translation: Investigation on the four-high 1700 mill showed that, with 08kp steel 0.5-2.0 mm thick, increasing the speed of dressing leads to an increase in reduction and metal pressure on the rolls. It is shown that increasing these quantities does not depend on preliminary adjustment and is established by the mechanical properties, thickness of the sheet, rigidity of the stand, and design of the liquid friction bearings. The results make it possible to determine the amount of preliminary adjustment established at low speeds, which corresponds to the optimal reduction state at working speed. Six illustrations, 13 bibliographic entries.

1/1

. 25 _

UDC 621.771.23.001.5

TITLYANOV, A. Ye., POLUKHIN, V. P., BOGDANOVA, G. P., and SAVINKINA, A. I.

"Optimizing Reduction States of the Dressing Process Considering the Effect of Straightening on the Mechanical Properties of a Thin Sheet"

Moscow, Plasticheskaya Deformatsiya Metallov i Splavov, "Metallurgiya" Publishing House, No. 64, 1970, pp 97-103

Translation: It is shown that, at low reductions in the process of dressing 08kp steel, subsequent straightening lowers the value of a majority of mechanical properties and the depth of the hole when testing according to Eriksen. Taking into account the effect of straightening on mechanical properties of the dressed metal makes it possible to select the optimal dressing mode more correctly. Reduction during dressing in the range of 0.5-0.7 percent with subsequent straightening makes it possible to eliminate the area of yield on the tension diagram and to obtain metal with a minimum yield point, lowered hardness, and a very deep Eriksen hole, which increases the stampability of sheet metal. Six illustrations and seven bibliographic entries.

1/1

1/2 017 UNCLASSIFIED PROCESSING DATE-300CT70

TITLE--COLORING MECHANISM OF CERIUM CONTAINING GLASSES -U-

AUTHOR-(03)-BOGDANOVA, G.S., DZHURINSKIY, B.F., ANTONOVA, S.L.

COUNTRY OF INFO-USSR

SOURCE-IZV. AKAD. NAUK SSSR, NEDRG. MATER. 1970, 6(4), 776-80

DATE PUBLISHED ----- 70

SUBJECT AREAS-MATERIALS

TOPIC TAGS-CERIUM GLASS, OPTIC PROPERTY, CERIUM COMPOUND, COMPLEX COMPOUND, SPECTRUM

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/2031

STEP NO-UR/0363/70/006/004/0716/0780

CIRC ACCESSION NO--APO125619 UNCLASSIFIED

2/2 017 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--AP0125619 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE MECHANISM BY WHICH CE IMPARTS COLOR TO GLASSES WAS STUDIED AS WAS THE POSSIBILITY OF USING THIS PIGMENT TO PRODUCE YELLOW ORANGE LIGHT FILTERS HAVING PREDTD. AND REPRODUCIBLE SPECTRAL PROPERTIES. THE EFFECT OF FOUNDING TIME ON SPECTRAL PROPERTIES OF THESE GLASSES AND ON THE CONCN. OF THE QUADRIVALENT CE ICN WAS INVESTIGATED. COMPLEX GROUPS CE PRIMEIV O CE PRIMEIII FORM IN CE CONTG. GLASSES. THE SPECTRAL ABSORPTION OF CE CONTG. GLASSES, AS DEPENDENT ON THE CONCN. OF THE CE CE COMPLEX FOLLOWS BEER'S LAW. THE SPECTRAL CURVE OF THE MOLAR ABSORPTIVITY FOR THE CE CE COMPLEX, WITH ITS MAX. PROBABLY LOCATED IN THE UV SPECTRAL REGION, FOLLOWS A SLOPING PATH. FACILITY: GOS. NAUCH.-ISSLED. INST. STEKLA, MOSCOW, USSR.

UNCLASSIFIED

USSR

UDC 621.317.422.001.5

KHOTOMLYANSKIY, A. L., NALCHA, G. I., and BOGDANOVA, I. I.

"Study of Irregularities of Mechanical Properties and Liquation of Chemical Elements in Low-Carbon Sheet Steel"

Dnepropetrovsk, Metallurgicheskaya i Gornorudnaya Promyshlennost', No 4, Jul-Aug 70, pp 34-36

Abstract: Results are presented from studies performed on transverse templets taken from hot-rolled strips of O8KP steel. The studies indicated significant heterogeneity of mechanical properties and liquation of chemical elements across the width of the strip, with good reliability of the calculated correlation coefficients. Analysis of the correlation coefficients between strength and content of each of the chemical elements C, Mn, S, P, and Al indicates significant positive dependence between strength and content of carbon, manganese, and aluminum. The dependence between the strength and the content of sulfur and phosphorus was found to be statistically unreliable. The dependence of yield point and relative elongation on the content of the chemical elements was found to be unreliable. A method is presented for calculating contact elastic flattening of rolls in one particular case of distribution of specific pressure over the width of a strip.

1/2 017 UNCLASSIFIED PROCESSING DATE--230CT70

TITLE--EFFECT OF GAS TEMPERATURE ON THE EFFECTIVENESS OF EXCITATION

TRANSFER IN HELIUM -U-AUTHOR-(02)-BOGDANDVA- I.P., MARUSIN, V.D.

COUNTRY OF INFO--USSR

SOURCE--OPT. SPEKTROSK. 1970, 28(4), 645-9

DATE PUBLISHED---- 70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--HELIUM, EXCITATION ENERGY, THERMAL EFFECT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1740

STEP NG--UR/0051/70/028/004/0645/0649

CIRC ACCESSION NO--APO118718

UNCLASSIFIED

PROCESSING DATE-230CT70 ABSTRACT. HEAT A PRESSURE OF 8 TIMES 10PRIME UNCL ASSIFIED NEGATIVES-4 TIMES 10 PRIME NEGATIVES TORR WAS EXCITED BY THE IMPULSE CIRC ACCESSION NO--APOIL8718 ELECTRONIC BEAM. VARIATION WAS OBSD. OF FORM OF THE OPTICAL FUNCTIONS ABSTRACT/EXTRACT-- [U] GP-0-OF EXCITATION OF THE SPECTRAL LINES OF HE FROM THE LEVELS 3 PRIMES D (LAMBDA EQUALS 587.6 NM) AND 4 PRIMES D (LAMBDA EQUALS 447.1 NM) MEASURED IN THE REAR AND FRONT OF A RECTANGULAR IMPULSE OF ELECTRONIC CURRENT OF 1 MUSEC DURATION . THIS VARIATION OF THE FORM IS DETD. BY THE TRANSFER OF THE EXCITATION FROM OTHER LEVELS OF HE ONTO THE STUDIED LEVELS. THE MEASUREMENTS SHOW DURATION OF THIS ADDNL. EXCITATION OF THE LEVELS 3 PRIMES D AND 4 PRIMES D LARGER BY AN ORDER OF MAGNITUDE THAN THEIR RADIATION LIFETIME. INVESTIGATION WAS CARRIED OUT OF THE TEMP. EFECT OF THE GAS ON THE MAGNITUDE OF THE EFFECTIVENESS OF TRANSFER OF AS THE TEMP. OF THE GAS VARIES 300-580DEGREESK THE MAGNITUDE OF THE EFFECTIVENESS OF THE TRANSFER WITHIN EXPIL. ERRORS REMAINS UNCHANGED AND AT THE TEMP. OF 120DEGREESK INCREASES 1.4 FOLD. HACLASSIFIED

7.1.1.1.0.1.2.1.0.1.1.1.2.1.0.2.1.0.2.1	_,		5.305		
	SIFIED WITH MANDELIC	PROCESSIN	200		
TITLE—COMPLEXES OF GERMANIUM. IV. TITLE—COMPLEXES OF GERMANIUM. IV. AUTHOR—(04)—SHAGISULTANOVA, G.A., AUGDANOVA, I.V. COUNTRY OF INFO—USSR SOURCE—Zh. NEGRG. KHIM. 1970, 15(Ŕ			en filtre of the	
DATE PUBLISHED70					
SUBJECT AREAS—CHEMISTRY TOPIC TAGS—GERMANIUM COMPOUND, CI COMPLEX, PLATINUM COMPLEX, GLYC	OMPLEX COMPOUND), CESIUM C	OMPOUND,	COBALT	
CONTROL MARKING-NO RESTRICTIONS				/06 51	
DOCUMENT CLASSUNCLASSIFIED PROXY REEL/FRAME2000/1705	STEP NOUR/O	0078/70/015	/003/0640	, 002	

2/2 009

CIRC ACCESSION NO—APO125326

ABSTRACT/EXTRACT—(U) GP—O— ABSTRACT. MIGE(BZCO SUB2)SUB2.PHCH(DH)CO

SUB2.H SUB2 0), WHERE M EQUALS K PRIME POSITIVE, NH SUB4 PRIME POSITIVE,

CS. PRIME POSITIVE, (CG(EN)SUB2CL SUB2)PRIME POSITIVE, (PT(NH

SUB3)SUB4)PRIME2 POSITIVE, OR (CO (NH SUB3)SUB6)PRIME3 POSITIVE SEPD. AS

SOLIDS DURING REACTION OF GE(IV) WITH MANDELIC ISOMOLAR SERIES SHOWED

FORMATION OF COMPLEXES OF DIFFERENT COMPN. STRUCTURES ARE PROPOSED FOR

THE COMPLEXES OF GE(IV) WITH I.

Acc. Nr: AP0051926 Ref. Code: UR 0219

PRIMARY SOURCE: Byulleten' Eksperimental'noy Biologii i

Meditsiny, 1970, Vol 69, Nr 2, pp 35-38

EFFECT OF ADRENALECTOMY AND NARCOSIS ON THE ANAPHYLACTIC REACTION

M. A. Bogdanova, L. P. Kopytovskaya

Institute of Experimental Medicine, Academy of Medical Sciences of the USSR, Leningrad

Removal of both adrenal glands in mice enhanced the sensitivity of the animals to the systemic anaphylactic reaction: minimal lethal doses of the immune serum was 80 times as low as in the control. Removal of but one adrenal gland produced no effect. Administration of cortizone restored the sensitivity of adrenalectomized animals to the normal level. In the adrenalectomized animals local reactions were less pronounced than in the control. Cortizone decreased the frequency of positive reactions. Deep ether narcosis during administration of "antimice" serum did not affect the development of general and local reactions of this type.

REEL/FRAME 19820409 pe à

1/1

UDC 576.851.31.097.22:615.33

PODOSINNIKOVA, L. S., DOMARADSKIY, I. V., LIBINZON, A. YE., LEBEDEVA, S. A., USSR and BOGDANOVA, M. I., Rostov-on-Don Antiplague Institute

"Multiple Resistence of El Tor Cholera Vibrios to Antibiotics"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, 1973,

Abstract: Fresh isolates of El Tor vibrios from patients with cholera were tested for resistance to a number of antibiotics, and several strains were pp 9-13 found to show multiple resistance. Resistance was found to decrease on in vitro passage and, since it is known that the El Tor vibrios readily take up resistance transfer factors from intestinal bacteria, studies were undertaken to pass the putative resistance factor from the vibrios to Pasteurella pestis strains EV and 556/106, and to cure the vibrios with acriflavine. Exposure of the vibrios to 0.1-5 μ g/ml of acriflavine in Marten's broth for 18-20 hrs at 37°C resulted in loss or decrease of resistance. Exconjugate P. pestis cells were found to acquire resistance to tetracycline, levemycetin, and streptomycin from the resistant vibrios; the resistance factor was transferred with a frefrom the resistant viorios; the resistance ractor was transferred at an equency of 2 x 10⁻⁴ to 2 x 10⁻⁵. In summary, the results showed that one strain of El Tor vibrios was cured by acriflavine and transferred resistance to 1/2 _ 21 -

CIA-RDP86-00513R002200420004-7" APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002200420004-7 "APPROVED FOR RELEASE: 09/01/2001

PODOSINNIKOVA, L. S., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, 1973, pp 9-13

P. pestis, four other strains transferred resistance to P. pestis but exposure to acriflavine only decreased their antibiotic resistance, and one strain, which was resistant to tetracycline, oxytetracycline, penicillin, and ampicillin, did not transfer resistance to P. pestis but was cured of resistance to tetracycline and oxytetracycline by acriflavine. The data suggest the extrachromosomal nature of the resistance factor. The failure of one strain to transfer the plasmid to P. pestis may have been due to the latter's inability to accept the plasmid, or the factor could have been defective or integrated into the chromosome.

2/2

CIA-RDP86-00513R002200420004-7" APPROVED FOR RELEASE: 09/01/2001

UDC 615.281.8:547,728.2

GRINEV, A. N., ZOTOVA, S. A., BOGDANOVA, N. S., NIKOLAYEVA, I. S. and PERSHIN, G. N., All-Union Scientific Research Chemical-Pharmaceutical Institute in the Company of College Pharmaceutical Institute in the College Pharmaceutical Institute in th tute imeni S. Orkzhonikidze, Moscow

"The Synthesis and Investigation of the Antiviral Properties of Dibenzofuran Derivatives"

Moscow, Khimiko-Farmatsevticheskiy Zhurnal, Vol 7, No 12, Dec 73, pp 19-21

Abstract: Seventeen dibenzofuran derivatives were synthesized from 2-oxy-6,7,8,9-tetrahydrodibenzofuran or 2-oxy-dibenzofuran, by bromination, substitution of nitro groups for bromine, aminomethylation and formation of alkylamine ester hydrochlorides. Five of the hydrochlorides were found to have virocidal activity, with one ten times more effective than the others. No therapeutic effect was established.

1/1

- 58 -

Therapy

USSR

UDC 615.281.8.035.4:616.938.75-053.4-036.8

AKSENOV, V. A., SFLIDOVSKIN, D. A., GLADKIKH, G. N., HUBLIKOL, V. S., KUZNETSOVA, O. V., MOLODISOVA, L. D., BERSENEVA, R. A., AKSENOV, L. A., EGGDAHOVA, N. S., and PERSHIN, G. N., All Union Chemico-Pharmaceutical Institute Lieni S. Ordzhonikidze, Ministry of Health USSR

"Study of the Prophylactic Value of the New Soviet Antiviral Preparation Oxolin in Preschool Children during the 1969 Influenza Epidemic"

Moscow, Pediatriya, No 5, 1970, pp 18-22'

Abstract: The viricidal agent oxolin (tetraoxotetrahydronaphthalene (dihydrate) is effective in the treatment of adenovirus kerato-conjunctivitis, herpetic keratitis, dermatitides of virus etiology, and some acute respiratory diseases. In a double-blind trial, oxolin was administered to 4,170 children one to seven years of age in an unidentified Soviet city during the 1969 influenza epidemic. (It was applied to the nasal mucosa in the form of a 0.25% ointment on a vaseline hase twice daily for 40-49 days). Oxolin reduced the incidence of influenza 1.7 times (43%) compared with control children. Severe forms of the disease and complications were 1.1-1.4 times more frequent in the latter than in those who received the preparation, and the course of the disease was 1.2 days longer on the average. The use of oxolin produced side effects in only 0.6% of the cases.

UDC 615.281.5.035.4:616.988.75-036.8

AKSENOV, V. A., SELIDOVKIN, D. A., GLADKIKH, G. N., GRAKHOVA, A. G., BOGDANOVA, N. S., and PERSHIN, G. N., Ministry of Health USSR, and All Union Scientific Research Chemicopharmaceutical Institute imeni S. Ordzhonikidze, Moscow

"Evaluation of the Prophylactic Effectiveness of the New Soviet Antiviral Agent Oxoline During the 1969 Influenza Epidemic"

Moscow, Farmakologiya i Toksikologiya, Vol 33, No 6, Nov/Dec 70, pp 726-733

Abstract: Oxoline, a polyox compound of the naphthalene series, is a virucidal drug with selective activity against influenza virus and a local action. It is effective in the treatment of virus infections of the eyes and skin, and relieves the symptoms of influenza in patients on application in the nasal and pharyngeal cavities. Its effectiveness as an influenza preventive was studied during the 1969 epidemic caused by the A2 virus. Tests were carried out on 9,600 children 1-7 years old in two cities. Oxoline was applied twice a day for 25 days on the mucosa of the nose in the form of an 0.25-0.5% vaseline ointment, using 0.3-0.5 g ointment per child per day. The coefficient of effectiveness in preventing influenza was 1.7, corresponding to a reduction of the incidence of influenza by 43% over the side effects was 0.6 and 0.9% for the 0.25 and

CIA-RDP86-00513R002200420004-7" APPROVED FOR RELEASE: 09/01/2001

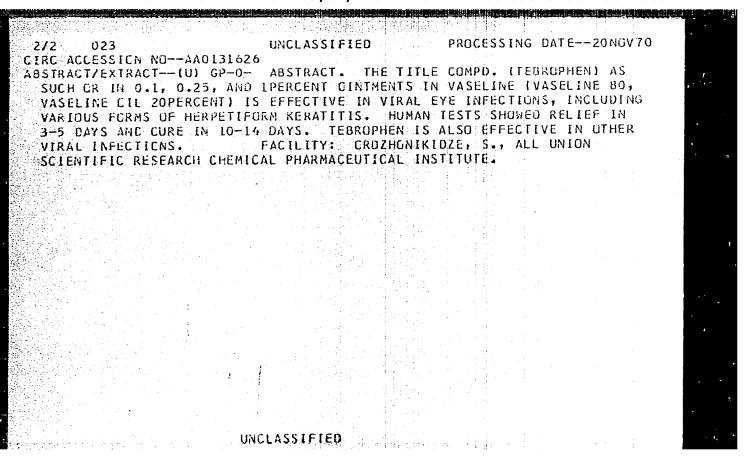
USSR

AKSENOV, V. A., et al, Farmakologiya i Toksikologiya, Vol 33, No 6, Nov/Dec 70, pp 726-733

and 0.5% ointment, respectively. The 0.25% ointment was as effective as the 0.5% ointment. The effectiveness coefficient was the same for children 1-3 years and 4-7 years old, a fact which indicated that oxoline produces a barrier effect, preventing entrance of the infection into the organism through the nasal mucosa, and is not resorbed into the blood. Prophylactic infection did occur and shortened the clinical course of influenza when infection did occur and shortened the duration of the disease.

212

PROCESSING DATE--20NOV70 UNCLASSIFIED TITLE-3.5.3 PRIME,5 PRIME, TETRABRUMO, 2,4.2 PRIME, 4 PRIME, TETRAHYDROXYBIPHENYL COMPOSITIONS FUR TREATING VIRAL EYE DISEASES ALTHOR-(G4)-NIKGLAEVA, 1.S., KRAFT, M.YA., PERSHIN, G.N., BOGDANOVA, N.S. CCUNTRY OF INFO-USSR SCURCE-FR. DEMANDE 2,CC7,474 DATE PLELISHED -- 09 JANTO SUBJECT AREAS—BICLOGICAL AND MEDICAL SCIENCES TGPIC TAGS-CRUG, EYE DISEASE, PATENT, VIRUS DISEASE CENTREL MARKING--NO RESTRICTIONS STEP NO--FR/0000/70/000/000/0000/0000 DCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/1079 CLOC ACCESSICA MU--AA0131626 THE ASSERTED



UDC 535.379:576.851.5

USSR

DOSKOCH, Ya. Ye., PARKHOMENKO, I. M., BOGDANOVA, N. V., MAZOKHINA, N. N., and TARUSOV, B. N., Moscow State University and All-Union Institute of the Canning and Vegetable-Drying Industries

"Spontaneous and Induced Chemoluminescence of Spores From Thermophilic Microorganisms in Relation to Their Thermostability"

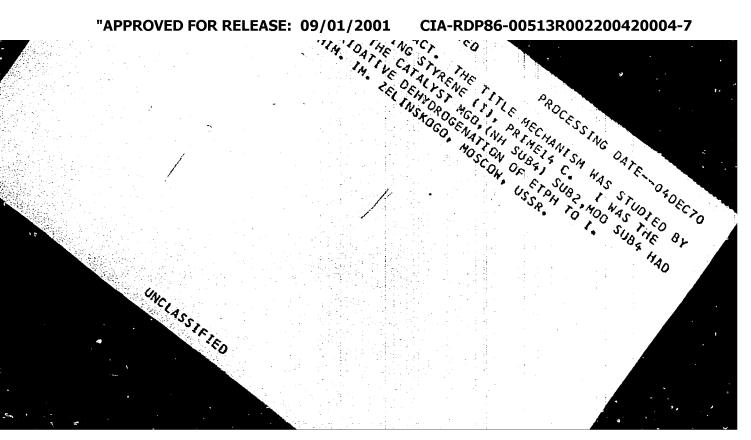
Moscow, Mikrobiologiya, No 5, 1971, pp 849-857

Abstract: Study of spores from the thermophilic strain Bacillus aerothermophilus showed that they do not luminesce spontaneously whether heated or not. However, passage of an electrical current through unheated spore suspensions induced luminescence at a constant level. The intensity was much lower than the luminescence emitted by suspensions heated to 120 to 130°C and the shape of the kinetic curve was much different. The intensity of luminescence was a function of the duration of heating, the maximum occurring after all the spores were killed due to destruction of the spore coat. High temperatures also affected the electrical conductance of the suspensions. In suspensions heated to 120°C the maximum current intensity occurred after 90 minutes, whereas in suspensions heated to 130°C it occurred after 3 minutes, the time when all the spores were killed, i.e., the current intensity varied with the number of dead microorganisms.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002200420004-7 PROCESSING DATE---UNCLASSIFIED UNCLASSIFIED IN THE OXIDATIVE AUTHOR-(04)-ISAGULYANTS: G.V., BOGDANOVA, O.K., BELOMESTNYKH, I.P., ROZHDESTVENSKAYA. N.N. COUNTRY OF INFO--USSR SOURCE-NEFTEKHIMIYA 1970, 10(2), 174-7 DATE PUBLISHED ----- 70 SUBJECT AREAS--CHEMISTRY, NUCLEAR SCIENCE AND TECHNOLOGY TOPIC TAGS-CARBON DIOXIDE, DEHYDROGENATION, ETHYLEBENZENE, STYRENE, CARBON ISOTOPE, OXIDATION CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0204/70/010/002/0174/0177 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/0959 -- 17647

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7



CIRC ACCESSION NO--APO134677
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE TITLE MECHANISM WAS STUDIED BY THE KINETIC ISOTOPE METHOD. USING STYRENE (I), PRIME14 C. I WAS THE ONLY PRECURSOR OF CO SUB2. THE CATALYST MGO, (NH SUB4) SUB2, MOD SUB4 HAD HIGH SELECTIVITY FOR THYOXIDATIVE DEHYDROGENATION OF EIPH TO I.

FACILITY: INST. ORG. KHIM. IM. ZELINSKOGO, HOSCOW, USSR.

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--160CT70 TITLE-INDIRECT POLAROGRAPHIC DETERMINATION OF PHENOTHIAZINE -U-

AUTHOR-(03)-TURYAN, YA.I., MEKRYUKOVA, T.V., BOGDANOVA, O.V.

COUNTRY OF INFO--USSR

SOURCE-ZH. ANAL. KHIM. 1970, 25(2), 384-6

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--POLAROGRAPHIC ANALYSIS, ORGANIC AZINE COMPOUND, BENZENE DERIVATIVE, NITRATION, ORGANIC SULFUR COMPOUND, OROPPING MERCURY ELECTRODE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1993/0686

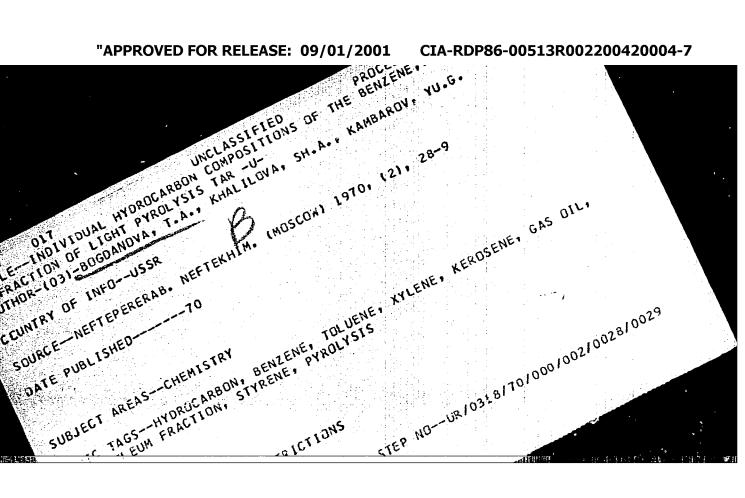
STEP NO--UR/0075/70/025/002/0384/0386

CIRC ACCESSION NO--APOIL3557 UNCLASSIFIED

1944 B. Jig. of Edwick III (1900 By, Edwinsk)

UNCLASSIFIED PROCESSING DATE--160CT70 CIRC ACCESSION NO--APO113557 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. AS INDIRECT POLAROGRAPHIC METHOD FOR PHENOTHIAZINE ON A DROPPING HG ELECTRODE WAS DEVELOPED. THE METHOD IS BASED ON NITRATION AND UBTAINING THE CATHODIC POLAROGRAPHIC WAVE. THE NITROSCAMINE FORMED GIVES A REDN. WAVE ON A DROPPING HG ELECTRODE WITH E SUBONE HALF EQUALS MINUS 0.93 IN A SUPPORTING ELECTROLYTE OF NA SUB2 SO SUB4 (SATD.) PLUS 0.04M NACH PLUS 14PERCENT H SUB2 O PLUS 18PERCENT MEOH PLUS 68PERCENT ETOH. TO 1 G OF THE SAMPLE IN HOONME SUB2 DR MEDH, ADD 9 ML MEDH, 2 ML 6M NAND SUB2, AND 1 ML 2N H SUB2 SD. AFTER 10 MIN ADD 4 ML 2.5N NACH AND DIL. TO 50 ML WITH ETCH. RECORD THE POLAROGRAM IN THE POTENTIAL RANGE OF MINUS 0.5 TO MINUS 1.4V. THE SENSITIVITY OF THE DETN. IS 5 TIMES 10 PRIME NEGATIVES PERCENT. THE ERROR IS PLUS OR MINUS SPERCENT. FACILITY: SCI. RES. INST. MONUMERS. SYN. RUBBERS, YAROSLAYL, USSR. UNCLASSIFIED

CIA-RDP86-00513R002200420004-7



CIA-RDP86-00513R002200420004-7" APPROVED FOR RELEASE: 09/01/2001

I/2 017

TITLE-INDIVIDUAL HYDROCARBON COMPOSITIONS OF THE BENZENE, TOLUENE, XYLENE AUTHOR-(03)-BOGDANDVA, T.A., KHALILOVA, SH.A., KAMBAROV, YU.G.

CCUNTRY OF INFO--USSR

SOURCE-NEFTEPERERAB. NEFTEKHIM. (MOSCOW) 1970, (2), 28-9

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--HYDROCARBON, BENZENE, TOLUENE, XYLENE, KEROSENE, GAS OIL, PETROLEUM FRACTION, STYRENE, PYROLYSIS

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1997/0790

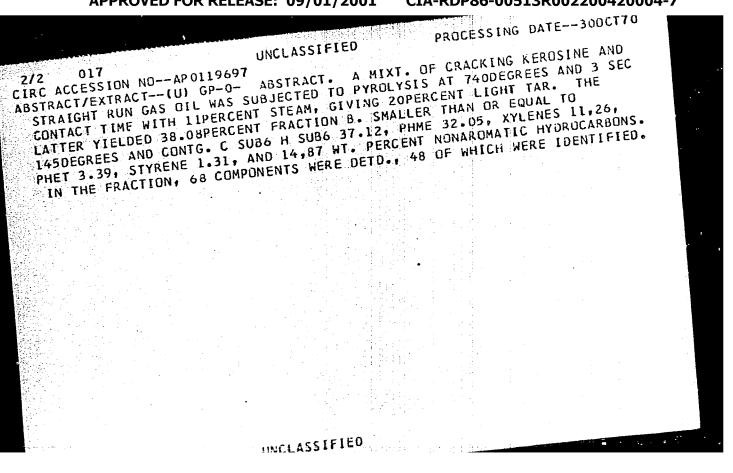
STEP NO--UR/0318/70/000/002/0028/0029

CIRC ACCESSION NO--APO119697

UNCLASSIFIED ...

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

<u>ucu para lingundescipi baasanda markata birah linar babili</u>



UDC 576.851.49.094.85.615.371.851.427.012.6

BOGDANOVA, V. V. STANISLAVSKIY, YE. S. MATER, G. A., and NEGINA, YU. P., Gor kly Institute of Epidemiology and Microbiology and Moscow Institute of

"Protective Properties of Cell Fractions and Mixtures of Isolated from the Vaccines and Sera imeni Mechnikov

Moscow, Zhurnal Mikroblologii, Epidemiologii i Immunobiologii, No 12, 1971, Vi-Positive Strain of Typhoid Bacillus"

Abstract: Various cell fractions isolated from S. typhi Ty2 4446 (capsular substance, cell walls, culture fluid, capsular substance + cell walls, culture pp 87-89 fluid + cell walls) were tested as vaccines in mice. Two weeks after the mice were vaccinated, they were infected with a virulent strain of S. typhi Ty₂ 4446 (ID₅₀ 13 million cells). The mixture of cell walls and culture fluid proved to be the most efficacious in protecting mice infected

with 5 ID 50 of typhoid bacillus. Both fractions possess little toxicity for nice and contain protective Vi and O antigens (whose macromolecular organization is close to the crude antigens in the original microbial cell). Unlike corpuscular vaccine, they do not contain intracellular components that may have immunodepressive activity or stimulate the synthesis of auto-

antibodies. 1/1

014 1/2

PROCESSING DATE-- 13NOV70

TITLE--IMMUNDELECTROPHORETIC ANALYSIS OF THE S. TYPHI TY SUB2 ANTIGENIC AUTHOR-(02)-BOGDANOVA, V.V., MATER, G.A.

CCUNTRY OF INFO-USSR

SCURCE-ZHURNAL MIKROBIOLOGII, EPIDEMIOLOGII I IMMUNOBIOLOGII, 1970, NR 4, DATE PUBLISHED ----- 70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-TYPHOID FEVER, O ANTIGEN. ELECTROPHORESIS

CONTROL MARKING--NO RESTRICTIONS

DECUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--1990/1472

STEP NU--UR/0016/70/000/004/0025/0028

CIRC ACCESSION NO--APO109532

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

<u> 2008, pro asula amagana ana da pikaban basaki da kumun da amagan basaki da baran b</u>

2/2 014 UNCLASSIFIED PROCESSING DATE--13NOV70

CIRC ACCESSION NO--APO109532
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. BOIVIN ANTIGEN OBTAINED FROM
TYPHOID STRAIN TY SUB2 4446 WAS SUBJECTED TO IMMUNDELECTROPHORETIC
ANALYSIS; INDIVIDUAL COMPONENTS OF THE COMPLEX AND THEIR INTERACTION
WERE CHARACTERIZED. AS DEMONSTRATED, VI ANTIGEN WAS BOUND BY
THERMGLABILE BOND WITH THE O ANTIGENIC COMPLEX, APPARENTLY WITH ITS
PROTEING COMPONENT; AS A RESULT, AN ANODE O FRACTION WAS DETECTED IN
IMMUNGELECTROPHORESIS. THE THERMOLABILE BOND WAS DISRUPTED ON HEATING,
AND THE D ANTIGENIC COMPLEX ACQUIRED A MOBILITY IN THE ELECTRIC FIELD
CHARACTERISTIC OF TYPHOID O ANTIGEN IN THE DIRECTION OF THE CATHODE.

UNCLASSIFIED

USSR

UDC 666.321:622.765

KUZOVLEV, A. K., Candidate of Technical Sciences, IGNATENKOVA, N. I., Engineer, NAL'TSEVA, I. I., Engineer, and BOGDANOVA, Ye. D., Engineer, Central Asian Scientific Research Institute of Geology and Mineral Raw Material

"Experience in Centrifugal Floating Classification of Angrensk Kaolins in Hydraulic Turbocyclone"

Moscow, Steklo i Keramika, No 2, 1973, pp 25-26

Abstract: Experiments of flotation of kaolins were conducted on TTs-ID (TVN-75) turbocyclone and GTN-200 laboratory hydraulic turbocyclone by the Khimgeolnerud expedition at the Angrensk Research Station, in order to investigate a possible increase of the effectiveness of flotation of secondary kaolins. The centrifugal floating classification on the GTN-200 turbocyclone revealed that a high-quality kaolin concentrate with up to 32-34% alumina content can be produced. This kaolin does not get worse with increasing density of the processed pulp and it is practically not inferior that the kaolin concentrated on NOGSh-325 scroll centrifuge. Three tables, one bibliographic reference.

USSR

UDC 595.771/.772-19(470.46)

POTAPOV, A. A., VLADIMIROV, V. V., MEL'NIK, T. D., and BOGHANOVA AND TRANSPORT THE THE POTAPOV, A. A., VLADIMIROV, V. V., MEL'NIK, T. D., and BOGHANOVA AND TRANSPORT THE TRANSPORT THE

"The Species Composition and Diurnal Activity of Mosquitoes and Gadflies in the Lower Volga Delta"

Moscow, Meditsinskaya Parazitologiya i Parazitarnyye Bolezni, Vol 42, No 1, Jan/ Feb 73, pp 5-11

Abstract: Observations carried out in the lower Volga delta (Obzhorsk district of the Astrakhan' Reservation) through Jun/Aug in 1966-67 indicated that 6 mosquito species, 12 gadfly species, and 2 gnat species breed there. The most numerous of cies of mosquitoes were Aedes vexans and Anopheles hircanus and the most numerous species of gadflies Hybomitra acuminatus and H. pecularis and also (in 1966, a year of high floods) Chrysops relictus and Chr. flavipes. The maximum activity of mosquitoes and gnats, as far as attacks on humans were concerned, was in the morning and evening hours, and the maximum activity of gadflies in the daytime. Among mosquitoes only Ae. vexans and Ae. caspius attacked in the daytime in the shade - An. hyrcanus, An. maculipennis, and Mensonia richiardii mosquitoes became active in the cool air after dark. Of gadflies 1/2

- 5 -

	· · · · · · · · · · · · · · · · · · ·	
	thologiya i Parazitarnyy	Bolezni,
POTAPOV, A. A., et al., Mo Vol 42, No 1, Jan/Feb 73,	ditsinskaya Parazitologiya i Parazitarnyyo pp 5-11 ost thermophilic were Chr. relictus and H. test time in the afternoon. In the evening test time in the afternoon were display	peculiaris, ng, when
with mass occurrence the m	pp 5-11 ost thermophilic were Chr. relictus and H. ost thermophilic were Chr. relictus and H. test time in the afternoon. In the evening test time in the afternoon were displayed to the control of the	jett whi
inversion air cur- to the tree tops.		
24 M. 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
2/2		

UNCLASSIFIED PROCESSING DATE-TITLE-FREE SUBUNITS OF RNA POLYMERASE IN NORMAL AND PHAGE INFECTED CELLS AUTHOR-(04)-BOGDANOVA, YE.S., ZOGRAF, YU.N., BASS, I.A., SHEMYAKIN, M.F. 1/2 015 SOURCE--MOLEKULYARNAYA BIOLOGIYA, 1970, VOL 4, NR 3, PP 435-444 COUNTRY OF INFO--USSR DATE PUBLISHED ----- 70 SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--ESCHERICHIA COLI, PHAGE, RNA, ENZYME CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0463/70/004/003/0435/0444 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/0386 ACCESSION NO--APOL22567 UNCLASSIFIED

2/2 015 UNCLASSIFIED PROCESSING DATE--230CT70 CIRC ACCESSION NO--APO122567 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE ADDITION OF SUPERNATANTS OBTAINED AFTER ULTRACENTRIFUGATION (5.5 HOURS; 300,000 G) OF THE NONINFECTED CELLS LYSATES OF E. COLI (STRAINS B. 3.050, TS 19) RESULTS IN A SHARP INCREASE OF ACTIVITY OF THE HEATED E. COLI RNA POLYMERASE. THIS ACTIVATION IS CONNECTED WITH SMALL PARTICLES (SIMILAR TO 3-53) AND IS ELIMINATED BY ANTIBODIES AGAINST PURIFIED E. COLI RNA POLYMERASE. THE INCREASE OF ACTIVITY OF THE HEATED ENZYME IS, THEREFORE, DUE TO THE PRESENCE OF THE SMALL COMPONENT OF POLYMERASE IN THE ULTRACENTRIFUGATES THAT MAKES POSSIBLE THE RECONSTRUCTION OF THE ENZYME FROM THE SMALL AND THE LARGE SUBUNITS. THE ULTRACENTRIFUGATE OF E. COLI B CELLS INFECTED WITH THE PHAGE TO DR TH OR WITH AN AMBER MUTANT N122 OF PHAGE TH. AS A RULE, DOES NOT ACTIVATE THE HEATED ENZYME. MOREOVER, IT SIGNIFICALLY INHIBITS THE RNA SYNTHESIS CATALYZED BY THE MIXTURE OF THE HEATED ENZYME AND THE ULTRACENTRIFUGATE FROM NONINFECTED CELLS, BUT DOES NOT AFFECT THE ACTIVITY OF THE NATIVE RNA POLYMERASE. INHIBITION IS NOT OBSERVED IN THE CASE WHEN THE RECONSTRUCTED ENZYME HAS ALREADY BEGUN TO SYNTHESIZE RNA BEFORE THE ADDITION OF THE ULTRACENTRIFUGATE FROM INFECTED BACTERIA. THE DATA OBTAINED MAKE IT POSSIBLE TO CONCLUDE THAT THE LYSATES OF THE INFECTED CELLS CONTAIN INHIBITOR WHICH SPECIFICALLY PREVENTS RECONSTRUCTION OF ACTIVE RNA POLYMERASE FROM ITS LARGE AND SMALL SUBUNITS. THE SUM OF RESULTS INDICATES THAT A MECHANISM OF REGULATION OF RNA POLYMERASE ACTIVITY MAY EXIST IN THE CELL, THAT ACTS ON THE LEVEL OF ASSOCIATION OF THE LARGE AND SMALL SUBUNITS OF THIS FACILITY: INSTITUTE OF ATOMIC ENERGY, USSR, MOSCOW. ENZYME.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002200420004-7"

entranterior sentra de la compactica de la

UDC: 62-278.001.2

TISSR

ANDREYEVA, L. Ye., Candidate of Technical Sciences, and BOGDANOVA,

Yu. A.

"Designing Corrugated Diaphragms in Accordance With a Specified

Characteristic"

Moscow, Pribory i sistemy upravleniya, No 6, 1972, pp 37-39

Abstract: In an earlier article published in this same journal (Metodika proyektirovaniya gofrirovannykh membran -- A Method of Designing Corrugated Diaphragms - No.9, 1969) the first of the authors named shows offered a method for designing each diaphrag uesigning corrugated plaphragms -- no y, 1909 the lirst of the authors named above offered a method for designing such diaphragms authors named above offered a method for designing of the chieffered and the characteristics are the contracted and the characteristics are the characteristics. in accordance with a characteristic specified by the stiffness and nonlinearity of the diaphragm. In the present article, the authors consider the more complete consider the more consideration and consider nonlinearity of the diaphiagn. In the present at office, one authors consider the more complex case in which the elasticity characteristic in the form acteristic in the form of a function of the pressure, and its tolerated field, are both specified. The problem the article sets out to solve is to select a diaphragm geometry such that the demands of characteristic, tolerated Voltages, and the dimensions of the generative element are cotisfied. The mathed is primarily the sensitive element are satisfied. The method is primarily graphic, and the curves used in carrying it out are reproduced. graphic, and the curves used in carrying to our are reproduced. LOVIC OF CAPCILLEURAL apsolutions propertied of only medical approximents propertied character-CONSTRUCTION OF THE PROPERTY OF THE PARTY OF

UDO 621.374.4

ROGDANOVICH R.M. [MOSCOW Radio Engineering Institute] USSR

"Calculation Of Aperiodic Multipliers Of The Frequency Of Harmonic Oscillations In A Dynamic Regime [Presented By Academician Of The AS; BSSR, Ye.G.Konovalov]

Doklady Akademii Nauk BSSR, Vol XVI, No 7, July 1972, pp 610-613

Abstract: The spectrum is studied of the output oscillations of a multiplier, AUBURACE: THE SPECTRUM AS SECURED OF THE CUTPUT OSCILLATIONS OF A MILITIPLE with a number of factors impairing the "purity" of the multiplier taken into with a number of factors impairing one purity of the militiplier are found.

account. The relations between the quality indices of the militiplier are found. The possibility is considered of a synthesis of aperiodic multipliers with arbi-The possibility is considered of a synthesis of aperiodic multipliers with arbitrary R, Rload and a high degree of "purity." The effect is studied of the parasitic elements of a multiplier circuit on its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of a multiplier circuit of its stability and the spectrum of the static elements of extract elements of a multiplier circuit on its scanning and one specular of output oscillations. Two equivalent circuits of an special multiplier are shown: 1) Series, where u = U cos to, i = I cos not; and 2) Parallel, where U=U cos n t, i=I cos t. In the paper the series-type frequency multiplier is studied. However, from considerations of duality, the results of the analysis conducted can be extended to the parallel type. 1 tab. 1 fig. 9 ref. Received, 6 December 1971.

USSR

UDC 4621.3.032.269.1

BOGDANOVICH, B. Yu., VORONKOV, R. M., GASS, V. F., and DANILICHEV,

"Autoelectronic Beam for Linear Electron Accelerators"

Moscow, Pribory i Tekhnika Eksperimenta, No. 1, January-February, 1971, pp 44-46

Abstract: The authors present the results of their measurements of electron beam parameters from a gun designed to inject electron bunches throughout a phase of 30-40° and with an energy of 300-40° kev in the accelerating section, with a constant phase velocity also describe the equipment they used to make these measurements. A cross-sectional drawing of the electron gun in this device is given and its dimensions specified. A "Nord-10" and a "Nord-100," other electric discharge pumps, were used to obtain the required degree of evacuation, which was from 2.10-6 to 5.10-6 mm Hg equipment is given as well as curves for the equipment characteristics and for the results obtained. All measurements, lasting change in dimensions. 1/1

Ref. Code: UR 0240 FEATURES TO PECULIAR GLOBAL CESIUM-137 AND STRONTIUM-90 REACHING THE POPULATION OF POLECIA BY DIFFERENT FOOD SUPPLY ROUTES A. N. Maren, R. M. Barkhuidarov, V. K. Chumak, E. V. Felikhand, E. B. Tyuruhkanova, G. A. Kuzanssou, N. V. Koukhand, S. B. Porhivilova, G. A. Bog danovich S. B. Porhivilova, G. A. Bog danovich The paper presents investigation data on the order of passage of about the accumulation of the soil into food products with due regard for the soil nature and the accumulation listopes in the human body. The finding was that the extent of the passage of cesium-137 into food products a sand fraction the passage of cesium-147 was more proposition food products a sand fraction the passage of cesium-147 into food products its content in the human body was high as well. REEL/FRAME REEL/FRAME	APPROVED FOR RELEASE: 09/01/2001	CIA-KDP80-00313	,KUU22UU42UU	/04-/
FEATURES TO PECULIAR GLOBAL CESIUM-137 AND STRONTIUM-90 REACHING THE POPULATION BY A. N. Marey, R. M. Barkhudarov, V. K. Chumak, E. V. Pelukhands E. B. Tyuruukanova, G. A. Kuzneisova, N. Ya. Novikova, E. B. Tyuruukanova, G. A. Hogdanovich S. B. Pozhivilova, G. A. Hogdanovich Sp. Pozhivilova, G. A. Hogdanovich topes from the soil into food products with due regard for the soil nature and the accumula- tion of isotopes in the human body. The finding was that the extent of the passage of cesium-137 was more pro- tion of isotopes in the human body. The finding was that the passage of cesium-137 was more pro- tion of isotopes in the human body find the objects examined. However, tion the soil into food products fluctuated considerabley and depended on the type of soil. Thus, in a soil consisting mainly of a sand fraction the passage of cesium-137 was more pro- tion of isotopes in the human body was high as well. The paper presents investigation data on the order of passage of and the accumula- tion of isotopes in the human body was high as well. The paper presents investigation data on the order of passage of and the passage of and the accumula- tion of isotopes in the human body was high as well- and the passage of the pass		3.图第三种产品和基本产生。	• . 5	
FEATURES TO PECULIAR GLOBAL CESIUM-137 AND STRONTIUM-90 REACHING THE POPULATION BY A. N. Marey, R. M. Barkhudarov, V. K. Chumak, E. V. Pelukhands E. B. Tyuruukanova, G. A. Kuzneisova, N. Ya. Novikova, E. B. Tyuruukanova, G. A. Hogdanovich S. B. Pozhivilova, G. A. Hogdanovich Sp. Pozhivilova, G. A. Hogdanovich topes from the soil into food products with due regard for the soil nature and the accumula- tion of isotopes in the human body. The finding was that the extent of the passage of cesium-137 was more pro- tion of isotopes in the human body. The finding was that the passage of cesium-137 was more pro- tion of isotopes in the human body find the objects examined. However, tion the soil into food products fluctuated considerabley and depended on the type of soil. Thus, in a soil consisting mainly of a sand fraction the passage of cesium-137 was more pro- tion of isotopes in the human body was high as well. The paper presents investigation data on the order of passage of and the accumula- tion of isotopes in the human body was high as well. The paper presents investigation data on the order of passage of and the passage of and the accumula- tion of isotopes in the human body was high as well- and the passage of the pass	the state of the s			
FEATURES TO PECULIAR GLOBAL CESIUM-137 AND STRONTIUM-90 REACHING THE POPULATION BY A. N. Marey, R. M. Barkhudarov, V. K. Chumak, E. V. Pelukhands E. B. Tyuruukanova, G. A. Kuzneisova, N. Ya. Novikova, E. B. Tyuruukanova, G. A. Hogdanovich S. B. Pozhivilova, G. A. Hogdanovich Sp. Pozhivilova, G. A. Hogdanovich topes from the soil into food products with due regard for the soil nature and the accumula- tion of isotopes in the human body. The finding was that the extent of the passage of cesium-137 was more pro- tion of isotopes in the human body. The finding was that the passage of cesium-137 was more pro- tion of isotopes in the human body find the objects examined. However, tion the soil into food products fluctuated considerabley and depended on the type of soil. Thus, in a soil consisting mainly of a sand fraction the passage of cesium-137 was more pro- tion of isotopes in the human body was high as well. The paper presents investigation data on the order of passage of and the accumula- tion of isotopes in the human body was high as well. The paper presents investigation data on the order of passage of and the passage of and the accumula- tion of isotopes in the human body was high as well- and the passage of the pass		rade: UR	0240	
FEATURES TO PECULIAR GLOBAL CESIUM-137 AND STRONTIUM-90 REACHING THE POPULATION BY A. N. Marey, R. M. Barkhudarov, V. K. Chumak, E. V. Pelukhands E. B. Tyuruukanova, G. A. Kuzneisova, N. Ya. Novikova, E. B. Tyuruukanova, G. A. Hogdanovich S. B. Pozhivilova, G. A. Hogdanovich Sp. Pozhivilova, G. A. Hogdanovich topes from the soil into food products with due regard for the soil nature and the accumula- tion of isotopes in the human body. The finding was that the extent of the passage of cesium-137 was more pro- tion of isotopes in the human body. The finding was that the passage of cesium-137 was more pro- tion of isotopes in the human body find the objects examined. However, tion the soil into food products fluctuated considerabley and depended on the type of soil. Thus, in a soil consisting mainly of a sand fraction the passage of cesium-137 was more pro- tion of isotopes in the human body was high as well. The paper presents investigation data on the order of passage of and the accumula- tion of isotopes in the human body was high as well. The paper presents investigation data on the order of passage of and the passage of and the accumula- tion of isotopes in the human body was high as well- and the passage of the pass		Ref. Code.	•	1
AND STRONTIUM-90 REACHING THE AND SUPPLY ROUTES OF POLECIA BY DIFFERENT FOOD SUPPLY ROUTES A. N. Marey, R. M. Barkhudarov, V. K. Chumak, E. V. Felukhara, E. B. Tyuryukanova, G. A. Kuznetsova, N. Va. Novikova, S. B. Pozhivilova, G. A. Bog danovich S. B. Pozhivilova, N. Va. Novikova, S. B. Pozhivilova, S. R. Novikova, S. R. N			-1-10	
AND STRONTIUM-90 REACHING THE AND SUPPLY ROUTES OF POLECIA BY DIFFERENT FOOD SUPPLY ROUTES A. N. Marey, R. M. Barkhudarov, V. K. Chumak, E. V. Felukhara, E. B. Tyuryukanova, G. A. Kuznetsova, N. Va. Novikova, S. B. Pozhivilova, G. A. Bog danovich S. B. Pozhivilova, N. Va. Novikova, S. B. Pozhivilova, S. R. Novikova, S. R. N	· - 000510	1070 Nr 1, PP 61	- 00	
AND STRONTIUM-90 REACHING THE AND SUPPLY ROUTES OF POLECIA BY DIFFERENT FOOD SUPPLY ROUTES A. N. Marey, R. M. Barkhudarov, V. K. Chumak, E. V. Felukhara, E. B. Tyuryukanova, G. A. Kuznetsova, N. Va. Novikova, S. B. Pozhivilova, G. A. Bog danovich S. B. Pozhivilova, N. Va. Novikova, S. B. Pozhivilova, S. R. Novikova, S. R. N	Acc. Nr.: PPOURSULE	19/0, 20		
AND STRONTIUM-90 REACHING THE AND SUPPLY ROUTES OF POLECIA BY DIFFERENT FOOD SUPPLY ROUTES A. N. Marey, R. M. Barkhudarov, V. K. Chumak, E. V. Felukhara, E. B. Tyuryukanova, G. A. Kuznetsova, N. Va. Novikova, S. B. Pozhivilova, G. A. Bog danovich S. B. Pozhivilova, N. Va. Novikova, S. B. Pozhivilova, S. R. Novikova, S. R. N	Gloivena 1 Saux		•	
AND STRONTIUM-90 REACHING THE AND SUPPLY ROUTES OF POLECIA BY DIFFERENT FOOD SUPPLY ROUTES A. N. Marey, R. M. Barkhudarov, V. K. Chumak, E. V. Felukhara, E. B. Tyuryukanova, G. A. Kuznetsova, N. Va. Novikova, S. B. Pozhivilova, G. A. Bog danovich S. B. Pozhivilova, N. Va. Novikova, S. B. Pozhivilova, S. R. Novikova, S. R. N	TRIMARY SOURCE: GIST	CESIUM-137	•	
AND STRONTIUM-90 REACHING THE AND SUPPLY ROUTES OF POLECIA BY DIFFERENT FOOD SUPPLY ROUTES A. N. Marey, R. M. Barkhudarov, V. K. Chumak, E. V. Felukhara, E. B. Tyuryukanova, G. A. Kuznetsova, N. Va. Novikova, S. B. Pozhivilova, G. A. Bog danovich S. B. Pozhivilova, N. Va. Novikova, S. B. Pozhivilova, S. R. Novikova, S. R. N	PRIMARY SLOE	AL CESTULATION		-
AND STROM BY DIFFERENT FOOD OF POLECIA BY DIFFERENT FOOD A. N. Mareu, R. M. Barkhudarov, V. K. Chumak, E. V. Letukhatale A. N. Mareu, R. M. Barkhudarov, Kuzneisova, N. Ya. Novikova, E. B. Tyuruukanova, G. A. Hogdanovich S. B. Pozhi vilova, G. A. Bogdanovich S. B. Pozhi vilova, G. A. Bogdanovich The paper presents investigation data on the order of passage of abovementioned iso- sometimes from the soil into food products with due regard for the soil nature and the accumula- tiones from the soil into food products with due regard for the soil nature and the accumula- tion of isotopes in the human body. The finding was that the extent of the passage of cesium-137 was more protion of isotopes in the human body was more protion the soil into food products fluctuated considerabley and depended on the type of soil. from the soil into food products fluctuated considerabley and depended on the type of soil. from the soil into food products fluctuated considerabley and depended on the type of soil. from the soil into food products fluctuated considerabley and depended on the type of soil. from the soil into food products fluctuated considerabley and depended on the type of soil. from the soil into food products fluctuated considerabley and depended on the type of soil. from the soil into food products fluctuated considerabley and depended on the type of soil. from the soil into food products fluctuated considerabley and depended on the type of soil. from the soil into food products fluctuated considerabley and depended on the type of soil. The paper presents into fluctuated considerabley and depended on the soil nature and the accumula. The paper presents into food products with due regard for the soil nature and the accumula. The paper presents into food products with due regard for the soil nature and the accumula. The paper presents into food products with due regard for the soil nature and the accumula.	FEATURES TO PECOLING	THE POPULES		
The paper presents investigation data on the order of passage of abovementioned isosopes from the soil into food products with due regard for the soil nature and the accumulation of isotopes in the human body. The finding was that the extent of the passage of cesium-137 was more profrom the soil into food products fluctuated considerabley and depended on the type of soil from the soil into food products fluctuated considerabley and depended on the type of from the soil into food products fluctuated considerabley and depended on the type of from the soil into food products fluctuated considerabley and depended on the type of resimm-137 was more profrom the soil into food products fluctuated considerabley and depended on the type of soil. However, from the soil into food products fraction the passage of cesium-137 was more made in respect to all of the objects examined. However, mounced. Similar observation were made in respect to all of the objects examined. Similar observation were made in respect to all of the objects examined. One to the high passage of cesium-137 into food products its content in the human body was high as well.	STRONTIUM 90 REPORT FOO!	D SUPPLI NO		
The paper presents investigation data on the order of passage of abovementioned isosopes from the soil into food products with due regard for the soil nature and the accumulation of isotopes in the human body. The finding was that the extent of the passage of cesium-137 was more profrom the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated fraction the passage of cesium-137 was more profrom the soil into food products fluctuated fraction the passage of cesium-137 was more profrom the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the passage of cesium-137 was more profit fluctuated considerabley and depended on the type of soil. Iron the passage of cesium-137 was more profit fluctuated considerabley and depended on the type of soil. Iron the passage of cesium-137 was more profit fluctuated considerabley and depended on the type of soil. Iron the passage of cesium-137 was more profit fluctuated considerabley and depended on the soil nature and the accumulation in the soil nature and the accumulation in the soil nature and the accumulation in the passage of cesium-137 and the accumulation in the soil nature and the accumulation in the passage of cesium-137 and the accumulatio	AND STEELA BY DIFFERENT	F. V. Felukhander		
The paper presents investigation data on the order of passage of abovementioned isosopes from the soil into food products with due regard for the soil nature and the accumulation of isotopes in the human body. The finding was that the extent of the passage of cesium-137 was more profrom the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated fraction the passage of cesium-137 was more profrom the soil into food products fluctuated fraction the passage of cesium-137 was more profrom the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the soil into food products fluctuated considerabley and depended on the type of soil. Iron the passage of cesium-137 was more profit fluctuated considerabley and depended on the type of soil. Iron the passage of cesium-137 was more profit fluctuated considerabley and depended on the type of soil. Iron the passage of cesium-137 was more profit fluctuated considerabley and depended on the type of soil. Iron the passage of cesium-137 was more profit fluctuated considerabley and depended on the soil nature and the accumulation in the soil nature and the accumulation in the soil nature and the accumulation in the passage of cesium-137 and the accumulation in the soil nature and the accumulation in the passage of cesium-137 and the accumulatio	OF POLLOWS	humak, va. Novikova,		
The paper presents investigation data on the older for the soil nature assage of cesium-ion topes from the soil into food products with due regard for the soil nature assage of cesium-ion the soil into food products fluctuated considerabley and depended on the type of soil tion of isotopes in the human body. The finding was that the extent of the passage of cesium-ion was more protion the soil into food products fluctuated considerabley and depended on the type of soil. However, tion of ion food products fluctuated considerabley and depended on the type of soil. However, to all of the objects examined. However, in a soil consisting mainly of a sand fraction the passage of cesium-ion the high passage. Thus, in a soil consisting mainly of a sand fraction the passage of cesium-ion the high passage. Thus, in a soil consisting mainly of a sand fraction the passage of cesium-ion the high passage. Thus, in a soil consisting mainly of a sand fraction the passage of cesium-ion the high passage. Thus, in a soil consisting mainly of a sand fraction the passage of cesium-ion the high passage. Thus, in a soil consisting mainly of a sand fraction the passage of cesium-ion to the high passage of cesium-ion to the passage of cesium-ion	Marey, R. M. Barkinda A. Kuznetso	londonovich	1 3000	•
The paper presents investigation data on the older for the soil nature and for the soil into food products with due regard for the soil nature and the type of soil. It is soil into food products fluctuated considerabley and depended on the type of soil into food products fluctuated considerabley and depended on the type of soil from the soil into food products fluctuated considerabley and depended on the type of soil to not food products fluctuated considerabley and depended on the type of soil. However, the soil into food products fluctuated considerabley and depended on the type of soil. However, the soil into food products fluctuated considerabley and depended on the type of soil. However, the soil into food products fluctuated considerabley and depended on the type of soil. However, the soil into food products fluctuated for the passage of cesium-137 was more protocol from the passage of cesium-137 was	A. H. E. B. Tyuryukanova, ivilova, G. A. L.	and a hovemen	floned 180	
tion of isotopes in the human tion of isotopes in the human fraction the passage from the soil into food products fluctuated fraction the passage from the soil into food products and in respect to all of the objects examined. Thus, in a soil consisting mainly of a sand in respect to all of the objects examined the high passage from the soil consisting mainly of a sand in respect to all of the objects examined. Due to the high passage from the soil consisting mainly of a sand in respect to all of the objects examined. The passage from the soil into a soil consisting mainly of a sand in respect to all of the objects examined. The passage from the soil into food products in respect to all of the objects examined. The passage from the soil into food products in respect to all of the objects examined. The passage from the soil into food products in respect to all of the objects examined. The passage from the soil into food products in respect to all of the objects examined. The passage from the soil into food products in respect to all of the objects examined. The passage from the p	5. D	rder of passage of the and the	accumula7	
tion of isotopes in the human tion of isotopes in the human fraction the passage from the soil into food products fluctuated fraction the passage from the soil into food products and in respect to all of the objects examined. Thus, in a soil consisting mainly of a sand in respect to all of the objects examined the high passage from the soil consisting mainly of a sand in respect to all of the objects examined. Due to the high passage from the soil consisting mainly of a sand in respect to all of the objects examined. The passage from the soil into a soil consisting mainly of a sand in respect to all of the objects examined. The passage from the soil into food products in respect to all of the objects examined. The passage from the soil into food products in respect to all of the objects examined. The passage from the soil into food products in respect to all of the objects examined. The passage from the soil into food products in respect to all of the objects examined. The passage from the soil into food products in respect to all of the objects examined. The passage from the p	investigation data on the	d for the soil the passage of	residit soll.	
tion of isotopes in the human tion of isotopes in the human body was high passage from the soil into food products fluctuated fraction the passage from the soil into food products and in respect to all of the objects examined. The food products in respect to all of the objects examined the high passage from the soil consisting mainly of a sand fraction the human body was high as well. Thus, in a soil consisting mainly of a sand in respect to all of the objects examined. Due to the high passage from the soil into a soil consisting mainly of a sand in respect to all of the objects examined. Due to the high passage from the soil into a soil consisting mainly of a sand in respect to all of the objects examined. Thus, in a soil consisting mainly of a sand in respect to all of the objects examined. Due to the high passage from the soil into a soil consisting mainly of a sand in respect to all of the objects examined. Thus, in a soil consisting mainly of a sand in respect to all of the objects examined. Due to the high passage from the soil into a soil consisting mainly of a sand in respect to all of the objects examined. Thus, in a soil consisting mainly of a sand in respect to all of the objects examined. Thus, in a soil consisting mainly of a sand in respect to all of the objects examined. Thus, in a soil consisting mainly of a sand in respect to all of the objects examined. Thus, in a soil consisting mainly of a sand in respect to all of the objects examined to a sand in respect to all of the objects examined to a sand in respect to all of the objects examined to a sand in respect to all of the objects examined to a sand in respect to all of the objects examined to a sand in respect to a sand in re	The paper presents independents with the was the	at the extent depended on the t	e more pro-	
from the soil into local into from the soil into some made in respect to an elected. Due to the soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to an elected. Due to the soil into soil consisting mainly of a respect to a respect to the soil into soil into soil consisting mainly of a respect to a respect to a respect to a respect to the soil into so	from the soil into human body. The illiams consider	abley and cesium-137 was	d. However,	
Thus, in a soll consistentian were intam-90 could be a body was high a soll consistential formula of strontium-90 could be a body was high a soll consistent in the human body was high a soll consistent in the human body was high a soll consistent in the human body was high a soll consistent in the human body was high a soll consistent in the human body was high a soll consistent in the human body was high a soll consistent in the human body was high a soll consistent in the human body was high a soll consistent in the human body was high a soll consistent in the human body was high as soll consistent in the human body was high as soll consistent in the human body was high as soll consistent in the human body was high a soll consistent in the human body was hight a soll consistent in the human body was high a soll consis	tion of isotopes in the modern fluctuated fraction	the passific objects examined the l	nigh passage	•
nounced. Similar observation of strength in the number of differences in the migration of strength in the number of cessium-137 into food products its content in the number of cessium-137 into food products its cessium-137 into food products	from the soil into listing mainly of a de in respect	id he detected. Due to as we	11.	
no differences in the food products its control of cessium-137 into food products its cessium-137 i	Thus, in a soil conservation were incontium-90 con	human body was nigh	(A	2
of cessium-137 into	nounced. Similar the migration its content in the		gra	-
	no differences into food products			
	of cesium-101		2	
REEL/YAMA				
/	Participation of the contract	Ank had a factor of the	e tradición de la compansión de la compa	
1/				
		443		50

1/2 018 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--COMPLEX STRUCTURE AND SURFACE ENERGY OF BINARY METALLIC MELTS -U-

AUTHOR-(04)-VOROBYEY, YU.P., BOGDANOVICH, M.P., MEN, A.N., CHUFAROV, G.I.

COUNTRY OF INFO--USSR

SOURCE-FIZ. METAL METALLOVED. 1970, 29(2), 445-8

DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--LIQUID BINARY ALLOY, SURFACE TENSION, FLUID STRUCTURE, SURFACE ENERGY, ALLOY COMPOSITION, MODEL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0355

STEP NO--UR/0126/70/029/002/0445/0448

CIRC ACCESSION MO--AP0129587

UNCLASSIFIED

2. 自己是对非独立。1444年 PROCESSING DATE--27NOV70 UNCLASSIFIED 018 2/2 CIRC ACCESSION NO--APO129587 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. AN INTERPRETATION WAS PERFORMED OF CONCN. DEPENDENCE OF SURFACE TENSION OF BINARY METALLIC MELTS IN A COMPLEX MODEL. THE NONPARTICIPATION OF INTRACOMPLEX BINDING ENERGIES IN THE TOTAL SURFACE TENSION OF THE MELT AND THE DEVELOPMENT IN THE SURFACE TENSION OF ONLY WEAKER INTERACTIONS BETWEEN THE COMPLEXES AND THE ATOMS OF THE REDISUAL COMPONENT WERE ASSUMED IN THIS INTERPRETATION. THE PARAMETERS FOUND FOR SEVERAL SYSTEMS ARE TABULATED. IN THE OPINION OF THE AUTHORS, THE PROPOSED MODEL FOR THE STRUCTURE OF BINARY METALLIC MELTS IS RATHER GENERAL, AT LEAST AT IST GLANCE. THE FOLLOWING SYSTEMS WERE CONSIDERED: PD, NI, PD, CO, PD, CU, SN, CI, AND SN, PB, FOR THE SN, BI SYSTEM, THE COEFF. OF THE WEAKENING OF THE BI, BI BOND WAS EQUAL TO ZERO. FACILITY: INST. MET., SYERDLOVSK, USSR.

PROCESSING UALL UNLLASSIFIED

UNLLASSIFIED

PROCESSING UALL

UNLLASSIFIED

TITLE—THEORY OF PHASES OF VARIABLE COMPOSITION AND DEFECT CONTENT —U— AUTHOR-(04)-MEN, A.N., BOGDANOVICH, M.P., VOROBYEV, YU.P., CHUFAROV, G.I. 1/2 029 SOURCE-12V. AKAD. NAUK SSSR, METAL. 1970. (2), 135-43 COUNTRY OF INFO--USSR DATE PUBLISHED----70 TOPIC TAGS--PHASE COMPOSITION, CRYSTAL DEFECT, METAL PROPERTY, MATHEMATIC HODEL CONTROL MARKING--NO RESTRICT'IONS STEP NO--UR/0370/70/000/002/0135/0143 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1233 -- 420124897 . cetEIFD

UNCLASSIFIED PROCESSING DATE--27NOV70 CIRC ACCESSION NO--APO124887

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. A MATHEMATICAL TREATMENT OF PHENOMENOL. THEORY OF PHASES OF VARIABLE COMPN. AND VARIABLE DEFECT CONTENT WAS CARRIED OUT IN ORDER TO INTERPRET THE PROPERTIES OF THE PHASES. THE TREATMENT IS BASED ON THE REPRESENTATION OF A REAL SYSTEM CONSISTING OF NONINTERACTING SUBSYSTEMS (CLUSTER COMPONENTS), EACH OF WHICH FORMS A DEFINITE PART OF THE PROPERTY OF THE SYSTEM IN QUESTION.

UNCLASSIFIED

รายที่ รายบรายพิสตร์ การสำนั

UDC: 532,529

BOGDANOVICH, S.YA., GUSEYNOV, CH.S. and SHEVSKIY, A.I. USSR

"Dispersed Composition of Aerosol in Natural Gas Flow Under Various

Odessa, 11-ya Vses. Konf. po. Vopr. Ispareniya, Goreniya i Gaz. Dinamiki Dispersn. Sistem, 1972 (11-th All-Union Conference on Problems of Evaporation, Combustion and Gas Dynamics of Dispersion Systems, 1972), 1972, p 19 (from Referativnyy Zhurnal-Mekhanika, 1973, Abstract No 2B1223)

Translation: Results are described of the analysis of experimental data on pressure effects on the process of droplet formation in natural gas. The dispersed composition of droplets at different pressures and flow velocities was measured by K.S. Shifrin optical method. It is shown that V.G. Levich relation between droplet size and flow velocity is true for natural gas, the coefficient of proportionality for this relation is determined and a single curve of droplet distribution in nondimensional form is plotted. Since the droplet size depends on the surface tension of the liquid at its boundary with gas, a test installation was prepared based on the method of maximum gas bubble pressure, 1/2 THE PERSON OF TH

CIA-RDP86-00513R002200420004-7" APPROVED FOR RELEASE: 09/01/2001